

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 22, 2003, 15:46:12 / Search time 34.0587 Seconds  
(without alignments)  
1067.227 Million cell updates/sec

Title: US-09-856-320A-2\_COPY\_54\_282

Perfect score: 1258  
Sequence: 1 IIXGFEKPHSQPQNALFE.....GVYTKVKVDMIOETWKN 229

Scoring table: BLOSUM62  
Gapop 10.0 / Gapext 0.5

Searched: 1107863 segs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database: A\_Geneseq\_19Jun03.\*

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18: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1997.DAT.*
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20: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1999.DAT.*
21: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2000.DAT.*
22: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.*
23: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.*
24: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1258	100.0	250	21	Human TUSP. Homo
2	1258	100.0	250	21	Human PRO1279 (UNQ)
3	1258	100.0	250	22	Human secreted pro
4	1258	100.0	250	22	Human PRO1279 poly
5	1258	100.0	250	22	Protein of the inv
6	1258	100.0	250	23	Prostate cancer-as
7	1258	100.0	250	23	Human angiogenesis
8	1258	100.0	250	23	Human PRO1279 prot
9	1258	100.0	250	23	Human PRO protein,

10	1258	100.0	250	24	ABU65822	Human PRO polypept
11	1258	100.0	250	24	ABU67098	Human secreted/tra
12	1258	100.0	250	24	ABU59903	Novel secreted and
13	1258	100.0	250	24	ABU56739	Lung cancer-associ
14	1258	100.0	282	20	AAV42439	CASB12 amino acid
15	1258	100.0	282	21	AAV11712	Human serine prote
16	1258	100.0	282	21	AAV43636	A human prostate-a
17	1252	99.5	281	20	AAV42440	CASB12 polypeptide
18	1235.5	98.2	275	21	AAV11714	Human serine prote
19	1231	97.9	228	21	AAV11312	Human TUSP. Homo
20	1228	97.6	250	20	AAV36093	Extended human sec
21	1227	97.5	248	22	AAV08017	Human PS133 consen
22	1219.5	96.9	289	21	AAV36483	Fusion gene with h
23	1219.5	96.9	289	22	AAV67543	Amino acid sequenc
24	1062	84.4	276	21	ABV11713	Mouse serine prote
25	1014.5	80.6	247	23	ABG70276	Human serine prote
26	736	58.5	250	21	ABE21298	Human KUK-L3 prote
27	736	58.5	250	21	ABE4969	Human protein SEQ
28	736	58.5	251	22	AAU16971	Human novel secret
29	734	58.3	247	22	AAU23217	Novel human enzyme
30	731.5	58.1	296	21	AAV21297	Human KUK-L3 prote
31	716	56.9	247	22	AAU86677	Novel human connec
32	716	56.9	247	22	AAU23752	Novel human enzyme
33	716	56.9	247	22	AAU17043	Novel human secret
34	688	54.7	275	21	AAV21311	Human neurospisin.
35	684	54.4	260	17	AAV10694	Human recombinant
36	684	54.4	260	18	AAV12393	Mouse neurospisin pr
37	684	54.4	260	23	ABV57219	Mouse leukaemic co
38	682	54.2	256	23	AAU79390	Novel human kallik
39	682	54.2	320	23	AAE19166	Human protease, PR
40	682	54.2	320	23	AAU82732	Amino acid sequenc
41	681	54.1	260	20	AAV41744	Human PRO322 prote
42	681	54.1	260	20	AAV32852	Human serine prote
43	681	54.1	260	20	AAV03320	Amino acid sequenc
44	681	54.1	260	20	AAV87703	A human serine pro
45	681	54.1	260	21	AAV21322	Human neurospisin.

#### ALIGNMENTS

RESULT 1  
AAB21325  
ID AAB21325 standard; Protein: 250 AA.  
XX  
AC AAB21325;  
XX  
DT 02-FEB-2001 (first entry)  
XX  
DS Human TUSP.  
XX  
KW Human; KUK-L1; KUK-L2; KUK-L3; KUK-L4; KUK-L5; KUK-L6; TUSP;  
KW trypsin-like serine protease; kallikrein-like protein; serine protease;  
KW cystostatic; cancer; prostrate cancer.  
XX  
OS Homo sapiens.  
XX  
PN WO200053776-A2.  
XX  
PD 14-SEP-2000.  
XX  
PF 09-MAR-2000; 2000WO-CR00258.  
XX  
PR 11-MAR-1999; 99US-0124260.  
PR 01-APR-1999; 99US-0127386.  
PR 21-JUL-1999; 99US-0144915.  
PA (MOUN ) MOUNT SINAI HOSPITAL.  
XX  
PI Yousef GW, Diamandis EP;  
XX  
DR WPI; 2000-587440/55.  
XX

New kallikrein-like (KLK-L) proteins for diagnosing and treating KLK-L protein mediated disorders, especially cancer. -

XX XX  
XX XX  
XX XX

Example 5; Fig 27; 184pp; English.

The present sequence is human trypsin-like serine protease (TLSP), a member of the serine protease family. Kallikreins and kallikrein-like proteins are a subgroup of the serine protease enzyme family. They catalyze the selective cleavage of specific polypeptide precursors to release peptides with potent biological activity. Nucleic acids encoding kallikrein-like proteins KLK-L1, KLK-L2, KLK-L3, KLK-L4, KLK-L5 and KLK-L6 have been isolated. The proteins are useful in the treatment, monitoring and diagnosis of cancers, especially prostate cancer. They can also be used to identify a substance that can associate with or mediate the biological activity of the proteins. Antibodies can be used to treat conditions mediated by the kallikrein-like proteins.

XX XX  
XX XX

Sequence 250 AA;

Query Match 100.0%; Score 1258; DB 21; Length 250;  
Best Local Similarity 100.0%; Prid.No.6.3e-113;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFCKPHSQPWOAALFETRLLCATLIAPRWMLTAAHCLKPRYVHLGHNLQKEE 60  
DB 22 IIKGFCKPHSQPWOAALFETRLLCATLIAPRWMLTAAHCLKPRYVHLGHNLQKEE 81  
QY 61 GCEQTRTATESPPHGFNNSLPNKDHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 120  
DB 82 GCEQTRTATESPPHGFNNSLPNKDHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 141  
QY 121 CLISGWSTSSQLRLPHTLRCANITIIHKCENAYPGNITDTMVCASVQEGKDSQCG 180  
DB 142 CLISGWSTSSQLRLPHTLRCANITIIHKCENAYPGNITDTMVCASVQEGKDSQCG 201

QY 181 DSGGLVPCNQSLOGIISWGQDPCAITRKPGVYTKVKYVDMIQETMKN 229  
DB 202 DSGGLVPCNQSLOGIISWGQDPCAITRKPGVYTKVKYVDMIQETMKN 250

RESULT 2  
AAAY99390  
ID AAAY99390 standard; Protein; 250 AA.  
XX AC  
XX AAAY99390;  
DT DT  
DT 08-AUG-2000 (first entry)  
DE Human PRO1279 (UNQ649) amino acid sequence SEQ ID NO.170.  
XX Human; PRO polypeptide; membrane bound protein; receptor; diagnosis;  
KW transmembrane; secretion; immunoadhesion; pharmaceutical; screening.  
XX Homo sapiens.  
OS  
PN WO200012708-A2.  
XX  
XX 09-MAR-2000.  
XX  
XX 01-SEP-1999; 99WO-US20111.  
XX  
XX 01-SEP-1998; 98US-0098716.  
PR 01-SEP-1998; 98US-0098749.  
PR 01-SEP-1998; 98US-0098750.  
PR 02-SEP-1998; 98US-0098802.  
PR 02-SEP-1998; 98US-0098821.  
PR 02-SEP-1998; 98US-0098843.  
PR 09-SEP-1998; 98US-0099536.  
PR 09-SEP-1998; 98US-0099596.  
PR 09-SEP-1998; 98US-0099598.  
PR 09-SEP-1998; 98US-0099602.  
PR 09-SEP-1998; 98US-0099642.  
PR 10-SEP-1998; 98US-0099741.

PR 27-OCT-1998; 98US-0105981.  
 PR 27-OCT-1998; 98US-0103882.  
 PR 27-OCT-1998; 98US-0106062.  
 PR 28-OCT-1998; 98US-0106023.  
 PR 28-OCT-1998; 98US-0106029.  
 PR 28-OCT-1998; 98US-0106030.  
 PR 28-OCT-1998; 98US-0106032.  
 PR 28-OCT-1998; 98US-0106033.  
 PR 28-OCT-1998; 98US-0106178.  
 PR 29-OCT-1998; 98US-0106248.  
 PR 29-OCT-1998; 98US-0106384.  
 PR 29-OCT-1998; 98US-0108500.  
 PR 30-OCT-1998; 98US-0106464.  
 PR 03-NOV-1998; 98US-0106856.  
 PR 03-NOV-1998; 98US-0106902.  
 PR 03-NOV-1998; 98US-0106905.  
 PR 03-NOV-1998; 98US-0106919.  
 PR 03-NOV-1998; 98US-0106932.  
 PR 03-NOV-1998; 98US-0106934.  
 PR 10-NOV-1998; 98US-0107783.  
 PR 17-NOV-1998; 98US-0108775.  
 PR 17-NOV-1998; 98US-0108779.  
 PR 17-NOV-1998; 98US-0108787.  
 PR 17-NOV-1998; 98US-0108788.  
 PR 17-NOV-1998; 98US-0108801.  
 PR 17-NOV-1998; 98US-0108802.  
 PR 17-NOV-1998; 98US-0108806.  
 PR 17-NOV-1998; 98US-0108807.  
 PR 17-NOV-1998; 98US-0108867.  
 PR 17-NOV-1998; 98US-0108925.  
 PR 18-NOV-1998; 98US-0108848.  
 PR 18-NOV-1998; 98US-0108849.  
 PR 18-NOV-1998; 98US-0108850.  
 PR 18-NOV-1998; 98US-0108851.  
 PR 18-NOV-1998; 98US-0108852.  
 PR 18-NOV-1998; 98US-0108858.  
 PR 18-NOV-1998; 98US-0108904.  
 PR 18-NOV-1998; 98US-0108904.  
 PR (GETH ) GENENTECH INC.  
 PI Baker K, Goddard A, Gurney AL, Smith V, Watanabe CK, Wood WI;  
 DR WPI; 2000-237871/20.  
 DR N-PSDB; AAA37072.  
 XX  
 PT New mammalian DNA sequences encoding transmembrane, receptor or  
 PT secreted PRO polypeptides, useful for screening of potential peptide or  
 PT small molecule inhibitors of the relevant receptor/ligand interactions  
 XX  
 PS Claim 12; Fig 102; 773pp; English.  
 XX  
 CC AAA37022 to AAA37144 encode the new isolated human transmembrane,  
 CC receptor or secreted PRO polypeptides given in AA993140 to AA99462. The  
 CC transmembrane and receptor PRO proteins can be used for screening of  
 CC potential peptide or small molecule inhibitors of the relevant  
 CC receptor/ligand interactions. The polypeptides and nucleotide sequences  
 CC encoding then have various industrial applications, including uses as  
 CC pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent  
 CC PCR primers and hybridisation probes used in the isolation of the PRO  
 CC polypeptides from the present invention.  
 XX  
 SQ Sequence 250 AA;  
 Query Match 100.0%; Score 1258; DB 21; Length 250;  
 Best Local Similarity 100.0%; Pred. No. 6.3e-113;  
 Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 IIKGFCKPHSQWQAALFEKRLICGATLIAPRWLLTAHCLKPRYIVHLQHNLOKEE 60  
 DB 22 IIKGFCKPHSQWQAALFEKRLICGATLIAPRWLLTAHCLKPRYIVHLQHNLOKEE 81  
 QY 61 GCEQTRTATESFPHGPNNSLPNKDHRNDIMLVKMASPVSIWAVRPLTSLSRCTAGTS 120  
 |||||||

Db 82 GCEQTRTATESFPHGPNNSLPNKDHRNDIMLVKMASPVSIWAVRPLTSLSRCTAGTS 141  
 QY 121 CLISGWGSTSSPOLRLPHTLRCAITIIIEHOKCEYAYPCNITDTWVCASVQEGKDSQCG 180  
 Db 142 CLISGWGSTSSPOLRLPHTLRCAITIIIEHOKCEYAYPCNITDTWVCASVQEGKDSQCG 201  
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 Db 202 DSGGPLYVNCNLSQGIISWGQDPCAIITRKPGVTVCKYVDMIOETMKNN 250  
 RESULT 3  
 ABB50479  
 ID ABB50479 standard; Protein; 250 AA.  
 XX  
 AC ABB50479;  
 XX  
 DT 07-FEB-2002 (first entry)  
 XX  
 DE Human secreted protein encoded by gene 179 SEQ ID NO:427.  
 XX  
 KW Human; secreted protein; immunomodulatory; antisclerotic; anti-HIV;  
 KW dermatological; immunosuppressive; antiinflammatory; immunostimulant;  
 KW cytostatic; cardiant; vascular; anti-angiogenic; ophthalmological;  
 KW neuroprotective; nootropic; anticonvulsant; antialzheimers; vulnary;  
 KW antiparkinsonian; antimicrobial; gene therapy; vaccine; immune disorder;  
 KW multiple sclerosis; systemic lupus erythematosus; HIV infection; cancer;  
 KW human immunodeficiency virus; hyperproliferative disorder; wound healing;  
 KW Gaucher's disease; cardiovascular disease; scintar syndrome; chetotaxis;  
 KW Chaga's cardiomyopathy; coronary arteriosclerosis; angiogenic disorder;  
 KW corneal graft neovascularisation; diabetic retinopathy; regeneration;  
 KW neurological disorder; Huntington's chorea; Alzheimer's disease;  
 KW Parkinson's disease; infectious disease.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200162891-A2.  
 XX  
 PD 30-AUG-2001.  
 XX  
 PP 21-FEB-2001; 2001WO-US05614.  
 XX  
 PR 24-FEB-2000; 2000US-184836P.  
 PR 29-MAR-2000; 2000US-193170P.  
 XX  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Ni J, Ebner R, Latleur DW, Moore PA, Olsen HS, Rosen CA;  
 PI Ruben SM, Soppet DR, Young PE, Shi Y, Florence KA, Wei Y;  
 PI Florence C, Hu J, Li Y, Kyaw H, Fischer CL, Ferris AM, Pan P;  
 PI Feng P, Endress GA, Dillon PJ, Carter KC, Brewer LA, Yu G;  
 PI Zeng Z, Greene JW;  
 XX  
 XX WPI; 2001-625724/72.  
 DR N-PSDB; ABA83372.  
 XX  
 PT Nucleic acids encoding 207 human secreted polypeptides, useful for  
 PT preventing, diagnosing and/or treating, e.g. cancers, Parkinson's  
 PT disease and diabetic retinopathy -  
 XX  
 PS Claim 11; Page 1181-1182; 1533pp; English.  
 XX  
 CC ABB50301 to ABB51287 and ABA83194 to ABA83441 represent human secreted  
 CC proteins (I) and polynucleotide (II) sequences. (I) and (II) have various  
 CC activities based on the tissues and cells the genes are expressed in.  
 CC Example of these activities include: immunomodulatory; antisclerotic;  
 CC dermatological; immunosuppressive; antiinflammatory; immunostimulant;  
 CC anti-HIV; cytostatic; cardiant; anti-angiogenic; ophthalmological;  
 CC neuroprotective; nootropic; anticonvulsant; antialzheimers; vascular;  
 CC antiparkinsonian; antimicrobial; and vulnary. (I) and (II) can be used  
 CC in gene therapy and vaccine production. (I) and (II) can be used in the  
 CC prevention, diagnosis and treatment of immune disorders (e.g. multiple  
 CC sclerosis, systemic lupus erythematosus and human immunodeficiency virus

CC (HIV infections), hyperproliferative disorders (e.g. cancers and  
 CC Gaucher's disease), cardiovascular diseases (e.g. Scimitar syndrome,  
 CC Chaga's cardiomyopathy and coronary arteriosclerosis), angiodysplastic  
 CC disorders (e.g. corneal graft neovascularisation and diabetic  
 CC retinopathy), neurological disorders (e.g. Huntington's chorea,  
 CC Alzheimer's disease and Parkinson's disease), infectious diseases and/or  
 CC for promoting wound healing, regeneration and/or chemotaxis. AAS3185 to  
 CC ABA8193 and ABB5300 represent sequences used in the exemplification of  
 CC the present invention.

XX Sequence 250 AA;  
 XX

Query Match 100.0%; Score 1258; DB 22; Length 250;  
 Best Local Similarity 100.0%; Pred. No. 6.3e-113;  
 Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 IIKGFCKPHSQPQWQALFEKTRLLCGATLIAPRWLLTAACHLKPRIYVHLGQHNLOKEE 60  
 Db 22 IIKGFCKPHSQPQWQALFEKTRLLCGATLIAPRWLLTAACHLKPRIYVHLGQHNLOKEE 81

Oy 61 GCEQTRTATESFPHPGFNNSLPKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAGTS 120  
 Db 82 GCEQTRTATESFPHPGFNNSLPKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAGTS 141

Oy 121 CLISGWGSTSSPOLRPHLRCANITIIHQKCNAYPGNITDTWVCASVOEGKDCSCG 180  
 Db 142 CLISGWGSTSSPOLRPHLRCANITIIHQKCNAYPGNITDTWVCASVOEGKDCSCG 201

RESULT 4  
 AAU12424  
 ID AAU12424 standard; Protein: 250 AA.  
 XX  
 AC AAU12424;  
 XX  
 DT 24-OCT-2001 (first entry)  
 XX  
 DE Human PRO1279 polypeptide sequence.  
 XX  
 KW Human secretory and transmembrane; PRO: mammalian; cancer; lung;  
 KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;  
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;  
 KW adipocyte; A-peptide; factor VIIA; gene therapy.  
 XX  
 OS Homo sapiens.  
 XX  
 XX W0200140466-A2.  
 XX  
 XX 07-JUN-2001.  
 XX  
 XX 01-DEC-2000; 2000HO-US32678.  
 XX  
 XX 01-DEC-1999; 99HO-US28301.  
 XX 01-DEC-1999; 99HO-US28301.  
 XX 02-DEC-1999; 99HO-US28551.  
 XX 02-DEC-1999; 99HO-US28564.  
 XX 02-DEC-1999; 99HO-US28565.  
 XX 02-DEC-1999; 99US-0170262.  
 XX 16-DEC-1999; 99HO-US30093.  
 XX 20-DEC-1999; 99HO-US30911.  
 XX 20-DEC-1999; 99HO-US30999.  
 XX 30-DEC-1999; 99HO-US31243.  
 XX 06-JAN-2000; 2000HO-US02077.  
 XX 06-JAN-2000; 2000HO-US03176.  
 XX 11-FEB-2000; 2000HO-US03565.  
 XX 18-FEB-2000; 2000HO-US04341.  
 XX 18-FEB-2000; 2000HO-US04342.  
 XX 22-FEB-2000; 2000HO-US04414.  
 XX 24-FEB-2000; 2000HO-US04914.

24-FEB-2000; 2000HO-US05004.  
 01-MAR-2000; 2000HO-US05601.  
 20-MAR-2000; 2000HO-US07377.  
 21-MAR-2000; 2000HO-US07532.  
 30-MAR-2000; 2000HO-US08439.  
 17-MAY-2000; 2000HO-US13705.  
 22-MAY-2000; 2000HO-US14042.  
 30-MAY-2000; 2000HO-US14941.  
 02-JUN-2000; 2000HO-US15264.  
 10-NOV-2000; 2000HO-US30873.  
 XX (GETH) GENENTECH INC.  
 XX  
 XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 XX  
 DR WPI: 2001-408281/43.  
 DR N-PSDB; AAS21496.  
 XX  
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect  
 PT other PRO polypeptides, link bioactive molecules to cells expressing  
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.  
 PT lung, breast, prostate, cervical  
 XX  
 PS Claim 12; Fig 506; 81pp; English.  
 XX  
 CC AAU12172-AAU12446 represent novel human secretory and transmembrane  
 CC PRO polypeptides. The PRO polypeptides are useful to detect other  
 CC PRO polypeptides, to link bioactive molecules to cells expressing  
 CC PRO polypeptides, to modulate biological activities of cells expressing  
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,  
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO  
 CC polypeptide expression in a cell sample to that in a control sample.  
 CC Some of the 275 sequences are also useful to stimulate the release of  
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the  
 CC proliferation or differentiation of chondrocytes, the proliferation or  
 CC gene expression in pericyte cells, the release of proteoglycans from  
 CC cartilage, the proliferation of inner ear utricular supporting cells or  
 CC of T-lymphocytes, the release of a cytokine from peripheral blood  
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of  
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by  
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide  
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify  
 CC molecules involved in binding interactions. The polynucleotides encoding  
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,  
 CC transgenic or knock out animals and can be used in gene therapy.  
 XX  
 SQ Sequence 250 AA;

Query Match 100.0%; Score 1258; DB 22; Length 250;  
 Best Local Similarity 100.0%; Pred. No. 6.3e-113;  
 Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 IIKGFCKPHSQPQWQALFEKTRLLCGATLIAPRWLLTAACHLKPRIYVHLGQHNLOKEE 60  
 Db 22 IIKGFCKPHSQPQWQALFEKTRLLCGATLIAPRWLLTAACHLKPRIYVHLGQHNLOKEE 81

Oy 61 GCEQTRTATESFPHPGFNNSLPKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAGTS 120  
 Db 82 GCEQTRTATESFPHPGFNNSLPKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAGTS 141

Oy 121 CLISGWGSTSSPOLRPHLRCANITIIHQKCNAYPGNITDTWVCASVOEGKDCSCG 180  
 Db 142 CLISGWGSTSSPOLRPHLRCANITIIHQKCNAYPGNITDTWVCASVOEGKDCSCG 201

Oy 181 DSGGPLVCNQSLOGIISWGQDPCAITRPGVYTKVKYVDMIOETMKN 229  
 Db 202 DSGGPLVCNQSLOGIISWGQDPCAITRPGVYTKVKYVDMIOETMKN 250

RESULT 5  
 AAB66139

ID AAB65139 standard; protein; 250 AA.  
XX AAB66139;  
AC  
XX  
DT 02-APR-2001 (first entry)  
XX  
DE Protein of the invention #51.  
XX  
XX Secreted; transmembrane; gene therapy.  
XX  
OS Unidentified.  
XX  
XX W0200078961-A1.  
XX  
XX 28-DEC-2000.  
XX  
XX 18-FEB-2000; 2000WO-US04342.  
XX  
XX 23-JUN-1999; 99US-0141037.  
XX 20-JUL-1999; 99US-0144758.  
XX 26-JUL-1999; 99US-0145698.  
XX 01-SEP-1999; 99WO-US20111.  
XX 29-OCT-1999; 99US-0162506.  
XX 30-NOV-1999; 99WO-US28313.  
XX 02-DEC-1999; 99WO-US28551.  
XX 16-DEC-1999; 99WO-US30095.  
XX 05-JAN-2000; 2000WO-US00219.  
XX 06-JAN-2000; 2000WO-US00376.  
XX (GETH ) GENENTECH INC.  
XX Baker KP, Botstein D, Desnovers L, Eaton DL, Ferrara N, Fong S;  
XX Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;  
XX Pan J, Peoni NF, Roy NA, Smith V, Stewart TA, Tumes D;  
XX Matanabe CK, Williams PW, Wood WI;  
XX WPI; 2001-071395/38.  
XX  
XX Secreted and transmembrane proteins and nucleic acids designated PRO,  
XX useful as hybridization probes, in chromosome and gene mapping and gene  
XX therapy -  
XX  
XX Claim 1; Fig 102; 787pp; English.  
XX  
XX The present invention relates to secreted and transmembrane proteins.  
XX These proteins and the DNA encoding them may be used as hybridization  
XX probes, in chromosome and gene mapping and in the generation of  
XX anti-sense RNA and DNA. They may also be used to generate either  
XX transgenic animals or knockout animals which are in turn useful for  
XX development and screening of therapeutically useful reagents.  
XX The nucleic acids may also be used in gene therapy.  
XX  
XX Sequence 250 AA;  
XX  
Query Match 100.0%; Score 1258; DB 22; Length 250;  
Best Local Similarity 100.0%; Pred. No. 6.3e-113;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 IIKGFECKPHSQPQWQAALFEKTLCCGATLAPRWLLTAHCLKPRYIVHLGQHNLOKEE 60  
Db 22 IIKGFECKPHSQPQWQAALFEKTLCCGATLAPRWLLTAHCLKPRYIVHLGQHNLOKEE 81  
Qy 61 GCEQTRTATESPHPGFNNSLPKXKXNDIMLVKQASPSVITWAVRPLTLSSRCVTAGTS 120  
Db 82 GCEQTRTATESPHPGFNNSLPKXKXNDIMLVKQASPSVITWAVRPLTLSSRCVTAGTS 141  
Qy 121 CLISGNGSTSSPOLRLPHTLRCANITIEHQKCNAYPGNITDTWVCASVQEGKDSQCG 180  
Db 142 CLISGNGSTSSPOLRLPHTLRCANITIEHQKCNAYPGNITDTWVCASVQEGKDSQCG 201  
Qy 181 DSGGPLYCNOSLOGIISWGDDPCATRKPGVYTKVKYVDWIGETMKNN 229  
Db 202 DSGGPLYCNOSLOGIISWGDDPCATRKPGVYTKVKYVDWIGETMKNN 250

RESULT 6  
ABG61816  
ID ABG61816 standard; Protein; 250 AA.  
XX  
XX AEG61816;  
AC  
XX  
DT 15-AUG-2002 (first entry)  
XX  
XX Prostate cancer-associated protein #17.  
XX  
XX Prostate cancer; prostate tumour tissue; human; mammal; cytostatic.  
XX  
XX Mammalia.  
OS  
XX W0200230268-A2.  
XX  
XX 18-APR-2002.  
XX  
XX 12-OCT-2001; 2001WO-US32045.  
XX  
XX 13-OCT-2000; 2000US-0687576.  
XX 08-DEC-2000; 2000US-0733288.  
XX 08-DEC-2000; 2000US-0733742.  
XX 24-JAN-2001; 2001US-243957P.  
XX 16-MAR-2001; 2001US-276791P.  
XX 16-MAR-2001; 2001US-276888P.  
XX 06-APR-2001; 2001US-281922P.  
XX 24-APR-2001; 2001US-286214P.  
XX 30-APR-2001; 2001US-0847046.  
XX 04-MAY-2001; 2001US-288589P.  
XX (COSB-) EOS BIOTECHNOLOGY INC.  
XX  
XX Gish KC, Mack DH, Wilson KE, Afar D, Hevezi P;  
XX WPI; 2002-471335/50.  
XX N-PSDB; ABX92131.  
XX  
XX Detecting a prostate cancer-associated transcript in a cell in a  
XX patient, useful for diagnosing prostate cancer (PC) or screening  
XX modulators of PC, by determining if prostate cancer-associated genes  
XX are expressed in a prostate tissue -  
XX  
XX Claim 27; Page 314; 436pp; English.  
XX  
XX The present invention relates to methods of detecting a prostate  
XX cancer-associated transcript in a cell from a patient. The method  
XX comprises contacting a biological sample from the patient with  
XX prostate cancer-associated polynucleotides (designated PC genes) that  
XX selectively hybridise to a sequence that is at least 80% identical  
XX to them. The prostate cancer-associated polynucleotide sequences  
XX are differentially expressed in prostate tumour tissue or in  
XX prostate cancer and are derived from the tissues of various  
XX organisms such as humans or other mammals (e.g. mice, sheep and dogs).  
XX The methods of the invention are useful for diagnosing and treating  
XX prostate cancer in mammals. The prostate cancer-associated genes are  
XX useful for diagnosing or treating prostate cancer, as well as for  
XX identifying modulators of prostate cancer or agents that inhibit  
XX prostate cancer. The nucleic acid sequences are particularly useful  
XX in gene therapy, as a vaccine or in antisense applications.  
XX ASG61800-ASG61944 represent prostate cancer-associated proteins.  
XX  
XX Sequence 250 AA;  
XX  
Query Match 100.0%; Score 1258; DB 23; Length 250;  
Best Local Similarity 100.0%; Pred. No. 6.3e-113;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 IIKGFECKPHSQPQWQAALFEKTLCCGATLAPRWLLTAHCLKPRYIVHLGQHNLOKEE 60  
Db 22 IIKGFECKPHSQPQWQAALFEKTLCCGATLAPRWLLTAHCLKPRYIVHLGQHNLOKEE 81

```

28-JUN-2001; 2001WO-US000000.

XX (GETH ) GENENTECH INC.
XX (BAKE/) BAKER K P.
XX (FERE/) FERRARA N.
XX (GERB/) GERBER H.
XX (GERE/) GERRITSEN M E.
XX (GODD/) GODDARD A.
XX (GODO/) GODOWSKI P J.
XX (GURN/) GURNEY A L.
XX (HILL/) HILLAN K J.
XX (MARS/) MARSTERS S A.
XX (PANG/) PAN J.
XX (PAON/) PAONI N P.
XX (STEP/) STEPHAN J F.
XX (WATA/) WATANABE C K.
XX (WILL/) WILLIAMS P M.
XX (WOOD/) WOOD W I.

XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;
XX Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;
XX Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;

XX WP1; 2002-171999/22.
XX N-PSDB; AB195664.

XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
XX useful in diagnosis and treatment of cardiovascular (e.g. myocardial
XX infarction), endothelial or angiogenic disorders in a mammal -
XX Claim 11; Fig 208; 567pp; English.

XX The present invention provides the protein and coding sequences of human
XX PRO proteins. These are useful for treating or diagnosing a
XX cardiovascular, endothelial or angiogenic disorder, including cardiac
XX hypertrophy, trauma, cancer, age-related macular degeneration,
XX atherosclerosis, hypertension, arterial stenosis, rheumatoid arthritis,
XX angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
XX angiogenesis (such as breast carcinoma and liver carcinoma) and wound
XX healing. The present sequence is a PRO protein of the invention.
XX xx
XX xx
XX Sequence 250 AA;

Query Match 100.0%; Score 1258; DB 23; Length 250;
Best Local Similarity 100.0%; Pred. No. 6.3e-113;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFECKPHSQPQAALPEKTLICGATLIAPRWLLTAACHLKPRYIVHLGHNLQKEE 60
Db 22 IIKGFECKPHSQPQAALPEKTLICGATLIAPRWLLTAACHLKPRYIVHLGHNLQKEE 81
QY 61 GCQRTTATESFPHPGGNNSLPNKHNRNDIMLVKNASPVSIITWAVRPLTLSRCVTAGTS 120
Db 82 GCQRTTATESFPHPGGNNSLPNKHNRNDIMLVKNASPVSIITWAVRPLTLSRCVTAGTS 141
QY 121 CLISWGSTSSPOLRLPHTLRCANIITIIHQCBNAVPGNITDTMVCA SVQEGKDS CGQ 180
Db 142 CLISWGSTSSPOLRLPHTLRCANIITIEHKENAYPGNITDTMVCA SVQEGKDS CGQ 201
QY 181 DSGGPLVCNSQLGIISGWGDPCAIIRKEGVYTKVKCYVDWIQETMKN 229
Db 202 DSGGPLVCNSQLGIISGWGDPCAIIRKEGVYTKVKCYVDWIQETMKN 250

RESULT 8
ABB84920
ID ID ABB84920 standard; Protein; 250 AA.
AC ABB84920;
XX CC
XX DT
XX 16-MAY-2002 (first entry)
XX Human PRO1279 protein sequence SEQ ID NO:208.

```



PR 20-DEC-2000: 2000US-0747259.  
PR 20-DEC-2000: 2000MO-US34956.  
PR 28-FEB-2001: 2001WO-US06520.  
PR 10-MAY-2001: 2001US-0854280.  
PR 25-MAY-2001: 2001WO-US17092.  
XX (GETH ) GENENTECH INC.  
PA  
XX Baker KP, Desnoyers L, Gerritsen ME, Coddard A, Godowski PJ,  
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI,  
PI N-PSDB; ABX33628.  
DR WP1; 2002-172001/22.  
DR N-PSDB; ABX33628.  
XX One hundred and twenty two nucleic acids encoding PRO polypeptides,  
PT useful for treating a PRO related disorder and for diagnosing tumours  
PT such as lung cancer, colon cancer, breast tumour, prostate tumour, rectal  
PT tumour or liver tumour  
XX  
PS Claim 11; Figure 186; 359pp; English.  
XX The invention relates to one hundred and twenty two nucleic acids  
CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides  
CC encode human secreted proteins. The PRO nucleic acids, polypeptides,  
CC agonists and antagonists are useful for treating a PRO related disorder.  
CC The PRO polypeptides are useful for diagnosing tumours, especially lung  
CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or  
CC liver tumour. The PRO polypeptides are useful for stimulating the  
CC proliferation of, or gene expression, in pericyte cells, for stimulating  
CC the proliferation or differentiation of chondrocyte cells, for  
CC stimulating the release of tumour necrosis factor-alpha from human blood,  
CC for stimulating or inhibiting the proliferation of normal human dermal  
CC fibroblast cells. The PRO polypeptide may also be used as molecular  
CC weight markers and for tissue typing. The PRO nucleic acids have  
CC applications in molecular biology, including use as hybridisation probes,  
CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO  
CC protein sequences of the invention.  
XX  
SQ Sequence 250 AA:  
  
Query Match 100.0%; Score 1258; DB 23; Length 250;  
Best Local Similarity 100.0%; Pred. No. 6.3e-113;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1 IIKGFCKPHSQPQWQALFENTRLCCATLTAARWLLTAHCLKPRYIVHLGQHNLOKEE 60  
Db 22 IIKGFCKPHSQPQWQALFENTRLCCATLTAARWLLTAHCLKPRYIVHLGQHNLOKEE 81  
  
Qy 61 GCEQRTATESPHGPFNNSLPNKHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 120  
Db 82 GCEQRTATESPHGPFNNSLPNKHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 141  
  
Qy 121 CLISGWGTSSTPQLRPLPHTLRCAITTIIEHQKCNAYPGNITDTWVCASVQEGKDSQCG 180  
Db 142 CLISGWGTSSTPQLRPLPHTLRCAITTIIEHQKCNAYPGNITDTWVCASVQEGKDSQCG 201  
  
Qy 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGYTKVCKYVDWIQETMKN 229  
Db 202 DSGGPLVCNQSLOGIISWGQDPCAITRKPGYTKVCKYVDWIQETMKN 250  
  
RESULT 10  
ABU6822  
ID ABU6822 standard; Protein; 250 AA.  
XX  
AC ABU6822;  
XX  
DT 23-MAY-2003 (first entry)  
XX  
DE Human PRO polypeptide #253.  
XX  
KW Human; PRO polypeptide; secreted and transmembrane protein;  
KW tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;  
XX

KW differentiation; chondrocyte; tumour; genetic disorder;  
KW cytostatic.  
XX Homo sapiens.  
OS  
XX  
PN US2003036180-A1.  
XX  
PD 20-FEB-2003.  
XX  
XX 09-MAY-2002; 2002US-0143114.  
XX  
XX 31-MAR-1997; 97MO-US05230.  
XX 12-JUN-1998; 98MO-US12456.  
XX 14-JUL-1998; 98MO-US14552.  
XX 28-AUG-1998; 98MO-US17888.  
XX 10-SEP-1998; 98MO-US18824.  
XX 14-SEP-1998; 98MO-US19093.  
XX 14-SEP-1998; 98MO-US19094.  
XX 14-SEP-1998; 98MO-US19177.  
XX 16-SEP-1998; 98MO-US19330.  
XX 17-SEP-1998; 98MO-US19437.  
XX 07-OCT-1998; 98MO-US21141.  
XX 29-OCT-1998; 98MO-US22991.  
XX 29-OCT-1998; 98MO-US22992.  
XX 20-NOV-1998; 98MO-US24855.  
XX 01-DEC-1998; 98MO-US25108.  
XX 05-JAN-1999; 99MO-US00106.  
XX 08-MAR-1999; 99MO-US05028.  
XX 10-MAR-1999; 99MO-US05190.  
XX 20-APR-1999; 99MO-US08615.  
XX 14-MAY-1999; 99MO-US10733.  
XX 02-JUN-1999; 99MO-US12252.  
XX 01-SEP-1999; 99MO-US20111.  
XX 08-SEP-1999; 99MO-US20594.  
XX 13-SEP-1999; 99MO-US20944.  
XX 15-SEP-1999; 99MO-US21090.  
XX 15-SEP-1999; 99MO-US21547.  
XX 03-OCT-1999; 99MO-US23089.  
XX 29-NOV-1999; 99MO-US28214.  
XX 30-NOV-1999; 99MO-US28313.  
XX 30-NOV-1999; 99MO-US28409.  
XX 01-DEC-1999; 99MO-US28301.  
XX 01-DEC-1999; 99MO-US28634.  
XX 02-DEC-1999; 99MO-US28551.  
XX 02-DEC-1999; 99MO-US28564.  
XX 02-DEC-1999; 99MO-US28565.  
XX 16-DEC-1999; 99MO-US30095.  
XX 20-DEC-1999; 99MO-US30911.  
XX 20-DEC-1999; 99MO-US30999.  
XX 22-DEC-1999; 99MO-US30720.  
XX 30-DEC-1999; 99MO-US31243.  
XX 30-DEC-1999; 99MO-US31274.  
XX 03-JAN-2000; 2000MO-US00219.  
XX 06-JAN-2000; 2000MO-US00277.  
XX 06-JAN-2000; 2000MO-US00376.  
XX 11-FEB-2000; 2000MO-US03565.  
XX 18-FEB-2000; 2000MO-US04341.  
XX 18-FEB-2000; 2000MO-US04342.  
XX 22-FEB-2000; 2000MO-US04414.  
XX 24-FEB-2000; 2000MO-US04914.  
XX 24-FEB-2000; 2000MO-US05004.  
XX 01-MAR-2000; 2000MO-US05601.  
XX 02-MAR-2000; 2000MO-US05746.  
XX 02-MAR-2000; 2000MO-US05841.  
XX 10-MAR-2000; 2000MO-US06319.  
XX 15-MAR-2000; 2000MO-US06884.  
XX 20-MAR-2000; 2000MO-US07377.  
XX 21-MAR-2000; 2000MO-US07532.  
XX 30-MAR-2000; 2000MO-US08439.  
XX 17-MAY-2000; 2000MO-US13705.  
XX 22-MAY-2000; 2000MO-US14042.  
XX 30-MAY-2000; 2000MO-US14941.  
XX 02-JUN-2000; 2000MO-US15264.



28-JUL-2000; 2000WO-US20710.  
 PR 11-AUG-2000; 2000WO-US22031.  
 PR 23-AUG-2000; 2000WO-US23522.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-MAR-2001; 2001WO-US06666.  
 PR 25-MAY-2001; 2001WO-US17092.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19692.  
 PR 22-JUN-2001; 2001WO-US20116.  
 PR 29-JUN-2001; 2001WO-US21066.  
 PR 09-JUL-2001; 2001WO-US21735.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 28-FEB-2001; 2001US-0794298.  
 PR 09-MAR-2001; 2001US-0802706.  
 PR 14-MAR-2001; 2001US-0806889.  
 PR 22-MAR-2001; 2001US-0816744.  
 PR 05-APR-2001; 2001US-0828366.  
 PR 10-MAY-2001; 2001US-0854208.  
 PR 10-MAY-2001; 2001US-0854280.  
 PR 18-MAY-2001; 2001US-0860216.  
 PR 25-MAY-2001; 2001US-0866028.  
 PR 25-MAY-2001; 2001US-0866034.  
 PR 01-JUN-2001; 2001US-0872035.  
 PR 05-JUN-2001; 2001US-0874503.  
 PR 14-JUN-2001; 2001US-0882636.  
 PR 19-JUN-2001; 2001US-0886342.  
 PR 21-JUN-2001; 2001US-0887879.  
 PR 18-JUL-2001; 2001US-0909827.  
 PR 06-AUG-2001; 2001US-0924419.  
 PR 09-AUG-2001; 2001US-0927796.  
 PR 16-AUG-2001; 2001US-0931836.  
 PR 19-DEC-2001; 2001US-0028072.  
 XX (GETH ) GENENTECH INC.

XX Baker KP, Beresini M, DeForge L, Deanoyers L, Filvaroff E, Gao W;  
 PI Garlisen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 XX WPI; 2003-332040/31.  
 DR N-PSDB; ACA03855.

XX New secreted and transmembrane PRO nucleic acids, useful for gene  
 PT therapy, in chromosome and gene mapping, as chromosome markers, in  
 PT tissue typing, and in chromosome identification  
 XX Claim 12; Fig 506; 660pp; English.

XX The present invention relates to the isolation of novel human PRO  
 CC polypeptides, and the polynucleotide sequences encoding them. The  
 CC PRO polypeptides are secreted and transmembrane proteins. The PRO  
 CC polypeptides are useful for detecting other PRO polypeptides, for  
 CC linking bioactive molecules to cells expressing PRO polypeptides,  
 CC for modulating biological activities of cells expressing PRO  
 CC polypeptides, and for identifying agonists or antagonists.  
 CC The PRO polypeptides are useful for stimulating the release of  
 CC tumour necrosis factor (TNF)-alpha from human blood, for stimulating  
 CC the proliferation or differentiation of chondrocytes, and detecting the  
 CC presence of tumours. The polynucleotide sequences encoding PRO  
 CC polypeptides are useful as hybridisation probes, in chromosome and  
 CC gene mapping, in the generation of antisense RNA and DNA, in the  
 CC preparation of PRO polypeptides, for generating transgenic animals or  
 CC knockout animals, for the genetic analysis of individuals with genetic  
 CC disorders, and in gene therapy. ASU66570-ASU66844 represent the human  
 CC PRO polypeptides of the invention.  
 CC Note: The sequence data for this patent was obtained in electronic  
 CC format directly from the USPTO web site at  
 CC seqdata.uspto.gov/psipdbEntry.html.

XX 90 Sequence 250 AA;  
 Query Match 100.0%; Score 1258; DB 24; Length 250;  
 Best Local Similarity 100.0%; Pred. No. 6.3e-113;  
 Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy. 1 IIKGECKPHSQWQAALPEKTLGATLIAFRWLTAAHCLAPRYIVHLGQHNLOKEE 60  
 Db 22 IIKGECKPHSQWQAALPEKTLGATLIAFRWLTAAHCLAPRYIVHLGQHNLOKEE 81  
 Qy 61 GCEQTRTATESFPHGPNNSLPKXDRNDIMLVKASPVSIITWAVRPLTSSRCVTAGTS 120  
 Db 82 GCEQTRTATESFPHGPNNSLPKXDRNDIMLVKASPVSIITWAVRPLTSSRCVTAGTS 141  
 Qy 121 CLISGWSTSSPQLRLPHTLRCAITIIIEHOKCENAYPGNITDTMVCASVQEGKDCSCQ 180  
 Db 142 CLISGWSTSSPQLRLPHTLRCAITIIIEHOKCENAYPGNITDTMVCASVQEGKDCSCQ 201  
 Qy 181 DSGGPLVCNQSLOQIIISWGODPCAITRKPGVTVTKYKVDWIQETMKNN 229  
 Db 202 DSGGPLVCNQSLOQIIISWGODPCAITRKPGVTVTKYKVDWIQETMKNN 250  
 RESULT 11  
 ABU67098  
 ID ASU67098 standard; Protein; 250 AA.  
 XX AC ABU67098;  
 XX 27-MAY-2003 (first entry)  
 DT Human secreted/transmembrane, PRO, protein SEQ ID 506.  
 DE Human secreted/transmembrane, PRO, protein SEQ ID 506.  
 XX Human; secreted protein; transmembrane protein; PRO;  
 KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;  
 KW infertility; birth defects; premature aging; AIDS; biosensor;  
 KW acquired immunodeficiency syndrome; cancer; diabetic complication;  
 KW bioreactor; tumour.  
 XX Homo sapiens.  
 OS US2003032155-A1.  
 XX 13-FEB-2003.  
 XX 03-MAY-2002; 2002US-0137865.  
 PF 31-MAR-1997; 97WO-US05230.  
 PR 12-JUN-1998; 98WO-US12456.  
 PR 14-JUL-1998; 98WO-US14552.  
 PR 28-AUG-1998; 98WO-US17888.  
 PR 10-SEP-1998; 98WO-US18824.  
 PR 14-SEP-1998; 98WO-US19093.  
 PR 14-SEP-1998; 98WO-US19094.  
 PR 16-SEP-1998; 98WO-US19330.  
 PR 17-SEP-1998; 98WO-US19437.  
 PR 07-OCT-1998; 98WO-US21141.  
 PR 23-OCT-1998; 98WO-US22931.  
 PR 20-NOV-1998; 98WO-US24855.  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 08-MAR-1999; 99WO-US00106.  
 PR 10-MAR-1999; 99WO-US05028.  
 PR 20-APR-1999; 99WO-US08615.  
 PR 14-MAY-1999; 99WO-US10733.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 01-SEP-1999; 99WO-US20111.  
 PR 08-SEP-1999; 99WO-US20594.  
 PR 13-SEP-1999; 99WO-US20944.  
 PR 13-SEP-1999; 99WO-US21090.

PR 15-SEP-1999; 99WO-US21547.  
 PR 05-OCT-1999; 99WO-US23089.  
 PR 29-NOV-1999; 99WO-US28214.  
 PR 30-NOV-1999; 99WO-US28313.  
 PR 30-NOV-1999; 99WO-US28409.  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 01-DEC-1999; 99WO-US28634.  
 PR 02-DEC-1999; 99WO-US28551.  
 PR 02-DEC-1999; 99WO-US28564.  
 PR 02-DEC-1999; 99WO-US28565.  
 PR 16-DEC-1999; 99WO-US30095.  
 PR 20-DEC-1999; 99WO-US30911.  
 PR 20-DEC-1999; 99WO-US30999.  
 PR 22-DEC-1999; 99WO-US30720.  
 PR 30-DEC-1999; 99WO-US31243.  
 PR 30-DEC-1999; 99WO-US31274.  
 PR 05-JAN-2000; 2000WO-US02119.  
 PR 06-JAN-2000; 2000WO-US00377.  
 PR 06-JAN-2000; 2000WO-US00376.  
 PR 11-FEB-2000; 2000WO-US03565.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 18-FEB-2000; 2000WO-US04342.  
 PR 22-FEB-2000; 2000WO-US04414.  
 PR 24-FEB-2000; 2000WO-US04914.  
 PR 24-FEB-2000; 2000WO-US05004.  
 PR 01-MAR-2000; 2000WO-US05001.  
 PR 02-MAR-2000; 2000WO-US05146.  
 PR 02-MAR-2000; 2000WO-US05841.  
 PR 10-MAR-2000; 2000WO-US06319.  
 PR 15-MAR-2000; 2000WO-US06884.  
 PR 20-MAR-2000; 2000WO-US07377.  
 PR 21-MAR-2000; 2000WO-US07532.  
 PR 30-MAR-2000; 2000WO-US08439.  
 PR 17-MAY-2000; 2000WO-US13705.  
 PR 22-MAY-2000; 2000WO-US14042.  
 PR 30-MAY-2000; 2000WO-US14941.  
 PR 02-JUN-2000; 2000WO-US15364.  
 PR 28-JUL-2000; 2000WO-US20710.  
 PR 11-AUG-2000; 2000WO-US22031.  
 PR 23-AUG-2000; 2000WO-US23322.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-MAR-2001; 2001WO-US06656.  
 PR 25-MAY-2001; 2001WO-US17092.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19692.  
 PR 22-JUN-2001; 2001WO-US20116.  
 PR 29-JUN-2001; 2001WO-US21066.  
 PR 09-JUL-2001; 2001WO-US21735.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 28-FEB-2001; 2001US-0796498.  
 PR 09-MAR-2001; 2001US-0802706.  
 PR 14-MAR-2001; 2001US-0806889.  
 PR 22-MAR-2001; 2001US-0816744.  
 PR 05-APR-2001; 2001US-0828366.  
 PR 10-MAY-2001; 2001US-0854208.  
 PR 10-MAY-2001; 2001US-0854280.  
 PR 18-MAY-2001; 2001US-0860216.  
 PR 25-MAY-2001; 2001US-0866028.  
 PR 25-MAY-2001; 2001US-0866034.  
 PR 01-JUN-2001; 2001US-0872035.  
 PR 05-JUN-2001; 2001US-0874503.  
 PR 14-JUN-2001; 2001US-0882636.  
 PR 19-JUN-2001; 2001US-0886342.  
 PR 21-JUN-2001; 2001US-0887879.  
 PR 18-JUL-2001; 2001US-0906827.  
 PR 06-AUG-2001; 2001US-0924419.  
 PR 09-AUG-2001; 2001US-0927796.  
 PR 16-AUG-2001; 2001US-0931836.

PR 19-DEC-2001; 2001US-0028072.  
 PA (GETH ) GENENTECH INC.  
 XX Baker KF, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tamas D, Watanabe CK, Wood WI, Zhang Z;  
 XX WPI; 2003-331925/31.  
 DR N-PSDB; ACA04276.  
 XX New secreted and transmembrane nucleic acids and polypeptides,  
 designated as PRO, useful for treating inflammation, organ failure,  
 atherosclerosis, cardiac injury, infertility, birth defects, premature  
 aging, AIDS, or cancer.  
 XX Claim 12; Fig 506; 659pp; English.  
 PS The invention relates to an isolated nucleic acid comprising, or which is  
 at least 80% identical to, or the full-length coding sequence of, any of  
 the 275 nucleotide sequences, encoding the corresponding PRO polypeptide  
 (one of 275 secreted or transmembrane proteins). The nucleic acid  
 further comprises the full-length coding sequence of the DNA deposited  
 under American Type Culture Collection (ATCC) accession number in a list  
 given in the specification. Also included are vectors and host  
 cells for producing PRO proteins, PRO fusion proteins, anti-PRO  
 antibodies, PRO extracellular domains and mature sequences, methods  
 of detecting PRO proteins, methods for stimulating the release of  
 TNF-alpha (tumour necrosis factor alpha) from human blood,  
 (and the proliferation of differentiation of chondrocyte cells, the  
 proliferation of, or gene expression in pericyte cells, the release or  
 supporting cells, the proliferation of T-lymphocyte cells, the release of  
 a cytokine from peripheral blood mononuclear cells (PBMC), or the  
 proliferation of endothelial cells), a method for modulating the uptake  
 of glucose or free fatty acid (FFA) by skeletal muscle cells,  
 a method for inhibiting the binding of A-peptide to factor VIIA,  
 or the differentiation of adipocyte cells, a method for detecting the  
 presence of a tumour in a mammal and an oligonucleotide probe derived  
 from any of the nucleotide sequences cited above. The nucleic acids and  
 polypeptides are useful for treating inflammatory diseases, organ  
 failure, atherosclerosis, cardiac injury, infertility, birth defects,  
 premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or  
 diabetic complications. The nucleic acids are useful as hybridisation  
 probes, in chromosome and gene mapping, and in generating antisense RNA  
 or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,  
 biosensors or bioreactors. Both are useful in tissue typing.  
 XX The present sequence represents a PRO protein of the invention.

Sequence 250 AA;

Query Watch 100.0%; Score 1258; DB 24; Length 250;  
 Best Local Similarity 100.0%; Pred. No. 6, 3e-113;  
 Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IKGFECKPHSQWQALFEKTRLLCGATLIAPRNLTAHCKLPRIYVHIGQNLKOE 60  
 DB 22 IKGFECKPHSQWQALFEKTRLLCGATLIAPRNLTAHCKLPRIYVHIGQNLKOE 81  
 QY 61 GCEQTRTATESPFPFNNSLPNKDRNDIMLVKMASPVSIITWVRPLTSSRCVTAGTS 120  
 DB 82 GCEQTRTATESPFPFNNSLPNKDRNDIMLVKMASPVSIITWVRPLTSSRCVTAGTS 141  
 QY 131 CLISGSGTSSPOLRPLHTLRACANIITIEHOKENAYPCNITDTWVCASVGGKDSQCG 180  
 DB 142 CLISGSGTSSPOLRPLHTLRACANIITIEHOKENAYPCNITDTWVCASVGGKDSQCG 201  
 QY 181 DSGGPLVCNLSQGIISGQDPFCALTRKPGVYTKCKYVDNIQETMGN 229  
 DB 202 DSGGPLVCNLSQGIISGQDPFCALTRKPGVYTKCKYVDNIQETMGN 250

RESULT 12

ABUS9903  
 ID ABUS9903 standard; Protein; 250 AA.  
 XX AC ABUS9903;  
 XX DT 13-MAY-2003 (first entry)  
 XX DE Novel secreted and transmembrane protein PRO1279.  
 XX KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
 KW cardiac insufficiency disorder; cancer; tumour; immune response;  
 KW adrenal cortical capillary endothelial growth; c-fos induction;  
 KW vascular endothelial growth factor inhibition; VEGF inhibition;  
 KW endothelial cell growth inhibitor; T-lymphocytes stimulation;  
 KW retinal neurons cell survival; rod photoreceptor cell survival;  
 KW retinal disorder; retinitis pigmentosa; kidney disorder;  
 KW mammalian kidney mesangial cell proliferation; Berger disease;  
 KW chondrocyte redifferentiation; Crohn's disease; chondrocyte proliferation;  
 XX OS Homo sapiens.  
 XX PN US2003017563-A1.  
 XX PD 23-JAN-2003.  
 XX PF 07-MAY-2002; 2002US-0146808.  
 XX PR 31-MAR-1997; 97WO-US05230.  
 PR 12-JUN-1998; 98WO-US12456.  
 PR 14-JUL-1998; 98WO-US14552.  
 PR 28-AUG-1998; 98WO-US17888.  
 PR 10-SEP-1998; 98WO-US18824.  
 PR 14-SEP-1998; 98WO-US19093.  
 PR 14-SEP-1998; 98WO-US19094.  
 PR 14-SEP-1998; 98WO-US19177.  
 PR 16-SEP-1998; 98WO-US19330.  
 PR 17-SEP-1998; 98WO-US19437.  
 PR 07-OCT-1998; 98WO-US21141.  
 PR 29-OCT-1998; 98WO-US22992.  
 PR 29-OCT-1998; 98WO-US22992.  
 PR 20-NOV-1998; 98WO-US24855.  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 05-JAN-1999; 99WO-US00106.  
 PR 08-MAR-1999; 99WO-US05028.  
 PR 10-MAR-1999; 99WO-US05190.  
 PR 20-APR-1999; 99WO-US08615.  
 PR 14-MAY-1999; 99WO-US10733.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 01-SEP-1999; 99WO-US20111.  
 PR 08-SEP-1999; 99WO-US20594.  
 PR 13-SEP-1999; 99WO-US20944.  
 PR 15-SEP-1999; 99WO-US21090.  
 PR 15-SEP-1999; 99WO-US21547.  
 PR 05-OCT-1999; 99WO-US23089.  
 PR 29-NOV-1999; 99WO-US28214.  
 PR 30-NOV-1999; 99WO-US28313.  
 PR 30-NOV-1999; 99WO-US28409.  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 01-DEC-1999; 99WO-US28634.  
 PR 02-DEC-1999; 99WO-US28551.  
 PR 02-DEC-1999; 99WO-US28564.  
 PR 02-DEC-1999; 99WO-US28565.  
 PR 16-DEC-1999; 99WO-US30095.  
 PR 20-DEC-1999; 99WO-US30911.  
 PR 20-DEC-1999; 99WO-US30999.  
 PR 22-DEC-1999; 99WO-US30720.  
 PR 30-DEC-1999; 99WO-US31243.  
 PR 30-DEC-1999; 99WO-US31274.  
 PR 05-JAN-2000; 2000WO-US00219.  
 PR 06-JAN-2000; 2000WO-US00277.  
 PR 06-JAN-2000; 2000WO-US00376.  
 PR 11-FEB-2000; 2000WO-US03565.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 18-FEB-2000; 2000WO-US04342.  
 PR 22-FEB-2000; 2000WO-US04344.  
 PR 24-FEB-2000; 2000WO-US04914.  
 PR 24-FEB-2000; 2000WO-US05004.  
 PR 01-MAR-2000; 2000WO-US05601.  
 PR 02-MAR-2000; 2000WO-US05746.  
 PR 02-MAR-2000; 2000WO-US05841.  
 PR 10-MAR-2000; 2000WO-US06319.  
 PR 15-MAR-2000; 2000WO-US06884.  
 PR 20-MAR-2000; 2000WO-US07377.  
 PR 21-MAR-2000; 2000WO-US07532.  
 PR 30-MAR-2000; 2000WO-US08439.  
 PR 17-MAY-2000; 2000WO-US13705.  
 PR 22-MAY-2000; 2000WO-US14042.  
 PR 30-MAY-2000; 2000WO-US14941.  
 PR 02-JUN-2000; 2000WO-US15284.  
 PR 28-JUL-2000; 2000WO-US20710.  
 PR 11-AUG-2000; 2000WO-US22031.  
 PR 23-AUG-2000; 2000WO-US23522.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-MAR-2001; 2001WO-US06666.  
 PR 23-MAY-2001; 2001WO-US17092.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19692.  
 PR 22-JUN-2001; 2001WO-US20116.  
 PR 22-JUN-2001; 2001WO-US21066.  
 PR 09-JUL-2001; 2001WO-US21735.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 28-FEB-2001; 2001US-0796498.  
 PR 09-MAR-2001; 2001US-0802706.  
 PR 14-MAR-2001; 2001US-0808689.  
 PR 22-MAR-2001; 2001US-0816744.  
 PR 05-APR-2001; 2001US-0828366.  
 PR 10-MAY-2001; 2001US-0854208.  
 PR 18-MAY-2001; 2001US-0860216.  
 PR 25-MAY-2001; 2001US-0866028.  
 PR 25-MAY-2001; 2001US-0866034.  
 PR 01-JUN-2001; 2001US-0872035.  
 PR 05-JUN-2001; 2001US-0874503.  
 PR 14-JUN-2001; 2001US-0882636.  
 PR 19-JUN-2001; 2001US-0886342.  
 PR 21-JUN-2001; 2001US-0887879.  
 PR 18-JUL-2001; 2001US-0908827.  
 PR 06-AUG-2001; 2001US-0924419.  
 PR 09-AUG-2001; 2001US-0927756.  
 PR 16-AUG-2001; 2001US-0931836.  
 PR 19-DEC-2001; 2001US-0028072.  
 XX (GETH ) GENENTECH INC.  
 XX Baker KF, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 XX WPI; 2003-148238/14.  
 XX N-PSDB; ABX89393.  
 XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
 PT are therapeutically useful for enhancing immune response and in cancer  
 PT treatments -  
 XX Claim 12; Fig 506; 659pp; English.  
 PS The invention describes an isolated human PRO polypeptide. The PRO  
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in

CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
CC in modulating at least one biological activity of a cell expressing a PRO  
CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
CC stimulate adrenal cortical capillary endothelial growth and PRO1316,  
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XX CASB12 amino acid sequence.  
XX neuropsin; cancer; assay; inhibitor; serine protease; immunogenic;  
XX autoimmune disease.  
XX Homo sapiens.  
XX W09949055-A1.  
XX 30-SEP-1999.  
XX 17-MAR-1999; 99WO-EP01894.  
XX 20-MAR-1998; 98CB-0006095.  
XX (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.  
XX Bruck CEM, Cassart J, Coche T, Vinale-bassols C;  
XX WPI; 1999-580450/49.  
XX N-PSDB; AA222638.  
XX New human serine protease CASB12, for treatment, prevention and  
XX diagnosis of cancer and autoimmune diseases -  
XX Claim 3; Page 48; 58pp; English.  
XX This is the amino acid sequence of the CASB12 protein. The nucleotide  
XX sequence of AA222638 shows homology with neutropsin and the encoded  
XX protein AA24239 is structurally related to other proteins of the  
XX serine protease family, having homology and/or structural similarity  
XX with neutropsin. It is expected that as well as structural similarity  
XX proteins will also share similar biological functions and properties.  
XX The CASB12 polypeptides and polynucleotides can be used to develop  
XX methods for identifying agonists and antagonists/inhibitors of these  
XX molecules, and thereby treating conditions associated with CASB12  
XX polypeptide imbalance. The invention also provides for diagnostic assays  
XX for detecting diseases associated with inappropriate CASB12 polypeptide  
XX activity or levels.  
XX Since CASB12 is either specifically expressed or highly over-expressed  
XX in tumors compared to normal cells, the polypeptides and polynucleotides  
XX of the invention are believed to be important immunogens for specific  
XX prophylactic or therapeutic immunization against tumors. The  
XX polypeptides and polynucleotides can therefore be targeted by antigen  
XX specific immune reactions (which result in the destruction of the tumor  
XX cell) or they can be used to diagnose the occurrence of tumor cells

Sequence 282 AA;  
Query Match 100.0%; Score 1258; DB 20; Length 282;  
Best Local Similarity 100.0%; Pred. No. 7.4e-113;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 IIKGFCKPHSQPQQAALFEKTRLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 60  
DB 54 IIKGFCKPHSQPQQAALFEKTRLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 113  
QY 61 GCQTRTATESFPHGPFNNSLPNKHNDIMLVKQASPVISITWVRPLTSSRCVTAGTS 120  
DB 114 GCQTRTATESFPHGPFNNSLPNKHNDIMLVKQASPVISITWVRPLTSSRCVTAGTS 173  
QY 121 CLISGMGSTSSPOLRPLPHTLRCAITIEHOKENAYPGNITDTWVCASVQEGGKDCSQG 180  
DB 174 CLISGMGSTSSPOLRPLPHTLRCAITIEHOKENAYPGNITDTWVCASVQEGGKDCSQG 233  
QY 181 DSGGFLVCSNLSQGIISWQDDPCAITRPGVYTKYCKVDWIQETMKN 229  
DB 234 DSGGFLVCSNLSQGIISWQDDPCAITRPGVYTKYCKVDWIQETMKN 282

RESULT 15  
AAB11712

ID AAB11712 standard; Protein; 282 AA.  
XX AAB11712;  
XX 23-OCT-2000 (first entry)  
XX Human serine protease BSSP6 (hBSSP6) SEQ ID NO:2.  
XX BSSP6; serine protease; human; hBSSP6; mouse; mBSSP6; brain;  
XX diagnostic marker; antibody; transgenic animal; Alzheimer's disease;  
XX epilepsy; cancer; inflammation; infertility; pancreatitis;  
XX prostatic hypertrophy.  
XX Homo sapiens.  
XX W0200031257-A1.  
XX 02-JUN-2000.  
XX 19-NOV-1999; 99WO-JP06476.  
XX 20-NOV-1998; 98JP-0347802.  
XX (FUSO ) FUSO PHARM IND LTD.  
XX Uemura H, Okui A, Kominami K, Yamaguchi N, Mitsui S;  
XX WPI; 2000-400067/34.  
XX N-PSDB; AA61763.  
XX Serine protease BSSP6, useful in detecting homologs, mutants and  
XX polymorphic variants as markers for diagnosis of Alzheimer's disease,  
XX epilepsy, cancer, inflammation, infertility and prostate hypertrophy,  
XX using blood or other tissues -  
XX Claim 1; Page 69-70; 94pp; Japanese.  
XX The invention relates to novel serine proteases designated BSSP6  
XX (AAB11712-B11714), and to nucleic acids encoding them (AA61763-AA61765).  
XX The invention also relates to vectors and transformants comprising BSSP6  
XX nucleic acids; transgenic animals in which the expression level of BSSP6  
XX can be varied; and an mBSSP6 knockout mouse. The invention additionally  
XX encompasses anti-BSSP6 antibodies and methods of production of such  
XX antibodies, methods of BSSP6 detection using the antibodies, and the  
XX use of BSSP6 proteins or fragments as diagnostic markers for certain  
XX medical conditions. Nucleotides encoding BSSP6 were initially  
XX isolated in a human brain cDNA library using degenerate PCR primers  
XX (AA61795-AA61796) based on conserved regions of serine proteases. The  
XX BSSP6 serine proteases and nucleotides encoding them are useful in  
XX detecting homologs, mutants and polymorphic variants in biological  
XX samples (e.g., blood, urine, brain, prostate gland, placenta, testis  
XX and spleen) as diagnostic markers for conditions such as Alzheimer's  
XX disease, epilepsy, cancer, inflammation, infertility and prostatic  
XX hypertrophy. Sequences AAB11712 and AAB11714 represent human BSSP6  
XX variants (hBSSP6), and sequence AAB11713 represents murine BSSP6  
XX (mBSSP6).  
XX Sequence 282 AA;  
Query Match 100.0%; Score 1258; DB 21; Length 282;  
Best Local Similarity 100.0%; Pred. No. 7.4e-113;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 IIKGFCKPHSQPQQAALFEKTRLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 60  
DB 54 IIKGFCKPHSQPQQAALFEKTRLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 113  
QY 61 GCQTRTATESFPHGPFNNSLPNKHNDIMLVKQASPVISITWVRPLTSSRCVTAGTS 120  
DB 114 GCQTRTATESFPHGPFNNSLPNKHNDIMLVKQASPVISITWVRPLTSSRCVTAGTS 173  
QY 121 CLISGMGSTSSPOLRPLPHTLRCAITIEHOKENAYPGNITDTWVCASVQEGGKDCSQG 180

Db 174 CLISGWSTSPQLRPLPHTLRCANITIIHQKCNAYPGNITDTWVCASVQEGKSCQG 233  
QY 181 DSGPLVCNCSLQGIISKGQDPCAITRKPGVYTKVCKYVDMIQETMKN 229  
Db 234 DSGPLVCNCSLQGIISKGQDPCAITRKPGVYTKVCKYVDMIQETMKN 282

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Job time : 35.0587 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 22, 2003, 15:50:17 ; Search time 21.9589 Seconds  
(without alignments)  
1746.375 Million cell updates/sec

Title: us-09-856-320a-2\_copy\_54\_282

Perfect score: 1258  
Sequence: 11KGFCEPHQPHQALFS.....GYTRVKYKVDIETHKN 229

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 629382 seqs, 167460630 residues

Total number of hits satisfying chosen parameters: 629382

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1258	100.0	250	11	US-09-946-374-170
2	1258	100.0	250	12	Sequence 170, App
3	1258	100.0	250	12	Sequence 506, App
4	1258	100.0	250	12	Sequence 506, App
5	1258	100.0	250	12	Sequence 506, App
6	1258	100.0	250	12	Sequence 506, App
7	1258	100.0	250	12	Sequence 506, App
8	1258	100.0	250	12	Sequence 506, App
9	1258	100.0	250	12	Sequence 506, App
10	1258	100.0	250	12	Sequence 506, App
11	1258	100.0	250	12	Sequence 506, App
12	1258	100.0	250	12	Sequence 506, App
13	1258	100.0	250	12	Sequence 506, App
14	1258	100.0	250	12	Sequence 506, App
15	1258	100.0	250	12	Sequence 506, App

16 1258 100.0 250 12 US-10-142-432-506  
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45 1258 100.0 250 12 US-10-006-130A-170

#### ALIGNMENTS

#### RESULT 1

US-09-946-374-170  
; Sequence 170, Application US/09946374  
; Publication No. US20030073129A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCES: P2830P1C1  
; CURRENT APPLICATION NUMBER: US/09/945,374  
; CURRENT FILING DATE: 2001-09-04  
; PRIOR APPLICATION NUMBER: 60/098716  
; PRIOR FILING DATE: 1998-09-01  
; PRIOR APPLICATION NUMBER: 60/098723  
; PRIOR FILING DATE: 1998-09-01  
; PRIOR APPLICATION NUMBER: 60/098749  
; PRIOR FILING DATE: 1998-09-01  
; PRIOR APPLICATION NUMBER: 60/098750

us-09-856-320a-2\_copy\_54\_282.rapb

PRIOR APPLICATION NUMBER: 60/101472	PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101472	PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101474	PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101475	PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101476	PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101477	PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101479	PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738	PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101741	PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101743	PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101915	PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101916	PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/102207	PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102240	PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102307	PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102330	PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102331	PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102484	PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102487	PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102570	PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102571	PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102684	PRIOR FILING DATE: 1998-10-01
PRIOR APPLICATION NUMBER: 60/102687	PRIOR FILING DATE: 1998-10-01
PRIOR APPLICATION NUMBER: 60/102965	PRIOR FILING DATE: 1998-10-02
PRIOR APPLICATION NUMBER: 60/103258	PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103314	PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103315	PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103328	PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103395	PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103396	PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103401	PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103449	PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103633	PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103678	PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103679	PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103711	PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/104257	PRIOR FILING DATE: 1998-10-08



PRIOR FILING DATE: 1998-10-14  
PRIOR APPLICATION NUMBER: 60/104987  
PRIOR FILING DATE: 1998-10-20  
PRIOR APPLICATION NUMBER: 60/105000  
PRIOR FILING DATE: 1998-10-20  
PRIOR APPLICATION NUMBER: 60/105002  
PRIOR FILING DATE: 1998-10-20  
PRIOR APPLICATION NUMBER: 60/105104  
PRIOR FILING DATE: 1998-10-21  
PRIOR APPLICATION NUMBER: 60/105169  
PRIOR FILING DATE: 1998-10-22  
PRIOR APPLICATION NUMBER: 60/105366  
PRIOR FILING DATE: 1998-10-22  
PRIOR APPLICATION NUMBER: 60/105693  
PRIOR FILING DATE: 1998-10-26  
PRIOR APPLICATION NUMBER: 60/105694  
PRIOR FILING DATE: 1998-10-26  
PRIOR APPLICATION NUMBER: 60/105907

Query Match 100.0%; Score 1258; DB 11; Length 250;  
Best Local Similarity 100.0%; Pred. No. 1.4e-118;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFECKPHSQWQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 60  
DB 22 IIKGFECKPHSQWQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 81  
QY 61 GCQOTRTATESPPHGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 120  
DB 82 GCQOTRTATESPPHGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 141  
QY 121 CLISGMGSTSSPOLRPLHTLRCAITIIIEHOKCENAYPGNITDTMVCASVOEGGKDSQCG 180  
DB 142 CLISGMGSTSSPOLRPLHTLRCAITIIIEHOKCENAYPGNITDTMVCASVOEGGKDSQCG 201  
QY 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVTVTKYKVDWIOETMKN 229  
DB 202 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVTVTKYKVDWIOETMKN 250

RESULT 2  
US-10-015-387A-170  
Sequence 170, Application US/10015387A  
Publication No. US20030135034A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan I.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Pan, James  
APPLICANT: Pacini, Nicholas F.  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2830P1C54  
CURRENT APPLICATION NUMBER: US/10/015,387A  
CURRENT FILING DATE: 2001-12-12  
Prior Application removed - See File Wrapper or Palm  
NUMBER OF SEQ ID NOS: 477  
SEQ ID NO 170  
LENGTH: 250  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-015-387A-170

Query Match 100.0%; Score 1258; DB 12; Length 250;

Best Local Similarity 100.0%; Pred. No. 1.4e-118;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFECKPHSQWQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 60  
DB 22 IIKGFECKPHSQWQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 81  
QY 61 GCQOTRTATESPPHGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 120  
DB 82 GCQOTRTATESPPHGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 141  
QY 121 CLISGMGSTSSPOLRPLHTLRCAITIIIEHOKCENAYPGNITDTMVCASVOEGGKDSQCG 180  
DB 142 CLISGMGSTSSPOLRPLHTLRCAITIIIEHOKCENAYPGNITDTMVCASVOEGGKDSQCG 201  
QY 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVTVTKYKVDWIOETMKN 229  
DB 202 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVTVTKYKVDWIOETMKN 250

RESULT 3  
US-10-137-870-506  
Sequence 506, Application US/10137870  
Publication No. US2003013883A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bersini, Maureen  
APPLICANT: DeForge, Laura  
APPLICANT: Desnovers, Luc  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Sherwood, Steven  
APPLICANT: Smith, Victoria  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K  
APPLICANT: Wood, William  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3330R1C155  
CURRENT APPLICATION NUMBER: US/10/137,870  
CURRENT FILING DATE: 2002-05-03  
Prior Application removed - See Palm or File Wrapper  
NUMBER OF SEQ ID NOS: 550  
SEQ ID NO 506  
LENGTH: 250  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-10-137-870-506

Query Match 100.0%; Score 1258; DB 12; Length 250;  
Best Local Similarity 100.0%; Pred. No. 1.4e-118;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFECKPHSQWQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 60  
DB 22 IIKGFECKPHSQWQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 81  
QY 61 GCQOTRTATESPPHGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 120  
DB 82 GCQOTRTATESPPHGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 141  
QY 121 CLISGMGSTSSPOLRPLHTLRCAITIIIEHOKCENAYPGNITDTMVCASVOEGGKDSQCG 180  
DB 142 CLISGMGSTSSPOLRPLHTLRCAITIIIEHOKCENAYPGNITDTMVCASVOEGGKDSQCG 201  
QY 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVTVTKYKVDWIOETMKN 229

Db 202 DSGGPLVNCNLSGQDPCATRKPGVYTKVCKYVDWIOETMKN 250

## RESULT 4

US-10-140-018-506

; Sequence 506, Application US/10140018

; Publication No. US2003013885A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tamas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P3330R1C158

; CURRENT APPLICATION NUMBER: US/10/140,018

; CURRENT FILING DATE: 2002-05-06

; Prior Application removed - See Palm or File Wrapper

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO 506

; LENGTH: 250

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-140-018-506

Query Match 100.0%; Score 1258; DB 12; Length 250;  
Best Local Similarity 100.0%; Pred. No. 1.4e-118;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFCKPHSQWQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 60  
DB 22 IIKGFCKPHSQWQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 81  
QY 61 GCQOTRTATESPPHGFNNSLPNKHNDIMLVKQASPVSIWAVRPLTLSSRCVTAGTS 120  
DB 82 GCQOTRTATESPPHGFNNSLPNKHNDIMLVKQASPVSIWAVRPLTLSSRCVTAGTS 141  
QY 121 CLISGMGSTSSPOLRPLHTLRCAITIIHOKCENAYPGNITDTMYCASVQEGGKDSQCG 180  
DB 142 CLISGMGSTSSPOLRPLHTLRCAITIIHOKCENAYPGNITDTMYCASVQEGGKDSQCG 201  
QY 181 DSGGPLVNCNLSGQDPCATRKPGVYTKVCKYVDWIOETMKN 229  
DB 202 DSGGPLVNCNLSGQDPCATRKPGVYTKVCKYVDWIOETMKN 250

## RESULT 5

US-10-140-021-506

; Sequence 506, Application US/10140021

; Publication No. US2003013886A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.  
; APPLICANT: Sherwood, Steven  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tamas, Daniel  
; APPLICANT: Watanabe, Colin K  
; APPLICANT: Wood, William  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P3330R1C167  
; CURRENT APPLICATION NUMBER: US/10/140,021  
; CURRENT FILING DATE: 2002-05-06  
; Prior Application removed - See Palm or File Wrapper  
; NUMBER OF SEQ ID NOS: 550  
; SEQ ID NO 506  
; LENGTH: 250  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-10-140-021-506

Query Match 100.0%; Score 1258; DB 12; Length 250;  
Best Local Similarity 100.0%; Pred. No. 1.4e-118;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFCKPHSQWQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 60  
DB 22 IIKGFCKPHSQWQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 81  
QY 61 GCQOTRTATESPPHGFNNSLPNKHNDIMLVKQASPVSIWAVRPLTLSSRCVTAGTS 120  
DB 82 GCQOTRTATESPPHGFNNSLPNKHNDIMLVKQASPVSIWAVRPLTLSSRCVTAGTS 141  
QY 121 CLISGMGSTSSPOLRPLHTLRCAITIIHOKCENAYPGNITDTMYCASVQEGGKDSQCG 180  
DB 142 CLISGMGSTSSPOLRPLHTLRCAITIIHOKCENAYPGNITDTMYCASVQEGGKDSQCG 201  
QY 181 DSGGPLVNCNLSGQDPCATRKPGVYTKVCKYVDWIOETMKN 229  
DB 202 DSGGPLVNCNLSGQDPCATRKPGVYTKVCKYVDWIOETMKN 250

## RESULT 6

US-10-140-274-506

; Sequence 506, Application US/10140274

; Publication No. US2003014367A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tamas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P3330R1C161

; CURRENT APPLICATION NUMBER: US/10/140,274

; CURRENT FILING DATE: 2002-05-06

; Prior Application removed - See File Wrapper or Palm

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO 506

; LENGTH: 250

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/ TYPE: PRT
/ ORGANISM: Homo Sapien
US-10-140-471-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFECKPHSQPQWAAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHGLQHNLOKEE 60
DB 22 IIKGFECKPHSQPQWAAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHGLQHNLOKEE 81
QY 61 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 120
DB 82 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 141
QY 121 CLISGWGSTSSPOLRPLPHTLRCAITIEHOKCENAYPGNITDTWVCASVQEGGKDCSCQ 180
DB 142 CLISGWGSTSSPOLRPLPHTLRCAITIEHOKCENAYPGNITDTWVCASVQEGGKDCSCQ 201

QY 181 DSGGPLVNCNLSQGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 229
DB 202 DSGGPLVNCNLSQGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 250

RESULT 7
US-10-140-471-506
; Sequence 506, Application US/10140471
; Publication No. US20030138857A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C163
; CURRENT APPLICATION NUMBER: US/10/140,471
; CURRENT FILING DATE: 2002-05-06
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 506
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-140-471-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFECKPHSQPQWAAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHGLQHNLOKEE 60
DB 22 IIKGFECKPHSQPQWAAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHGLQHNLOKEE 81
QY 61 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 120
DB 82 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 141
QY 121 CLISGWGSTSSPOLRPLPHTLRCAITIEHOKCENAYPGNITDTWVCASVQEGGKDCSCQ 180
QY 181 DSGGPLVNCNLSQGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 229
DB 202 DSGGPLVNCNLSQGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 250
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DB 142 CLISGWGSTSSPOLRPLPHTLRCAITIEHOKCENAYPGNITDTWVCASVQEGGKDCSCQ 201
QY 181 DSGGPLVNCNLSQGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 229
DB 202 DSGGPLVNCNLSQGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 250

RESULT 8
US-10-140-807-506
; Sequence 506, Application US/10140807
; Publication No. US20030134354A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C174
; CURRENT APPLICATION NUMBER: US/10/140,807
; CURRENT FILING DATE: 2002-05-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 506
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-140-807-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFECKPHSQPQWAAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHGLQHNLOKEE 60
DB 22 IIKGFECKPHSQPQWAAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHGLQHNLOKEE 81
QY 61 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 120
DB 82 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKASPVSIITWAVRPLTLSSRCVTAAGTS 141
QY 121 CLISGWGSTSSPOLRPLPHTLRCAITIEHOKCENAYPGNITDTWVCASVQEGGKDCSCQ 180
DB 142 CLISGWGSTSSPOLRPLPHTLRCAITIEHOKCENAYPGNITDTWVCASVQEGGKDCSCQ 201
QY 181 DSGGPLVNCNLSQGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 229
DB 202 DSGGPLVNCNLSQGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 250

RESULT 9
US-10-140-922-506
; Sequence 506, Application US/10140922
; Publication No. US2003013889A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
```

```
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Gurney, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C177
; CURRENT APPLICATION NUMBER: US/10/140,922
; CURRENT FILING DATE: 2002-05-07
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 506
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-140-922-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 225; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFCKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 60
DB 22 IIKGFCKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 81
QY 61 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 120
DB 82 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 141
QY 121 CLISGWSSTSPQLRPLHTLRCAITIEHOKCENAVPGNITDTWVCASVQEGGKDCSQG 180
DB 142 CLISGWSSTSPQLRPLHTLRCAITIEHOKCENAVPGNITDTWVCASVQEGGKDCSQG 201
QY 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVCKYVDWIOETMKN 229
DB 202 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVCKYVDWIOETMKN 250

RESULT 10
US-10-140-924-506
; Sequence 506, Application US/10140924
; Publication No. US20030134355A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Gurney, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C177
; CURRENT APPLICATION NUMBER: US/10/140,924
; CURRENT FILING DATE: 2002-05-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 506
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-140-924-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 225; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFCKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 60
DB 22 IIKGFCKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 81
QY 61 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 120
DB 82 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 141
QY 121 CLISGWSSTSPQLRPLHTLRCAITIEHOKCENAVPGNITDTWVCASVQEGGKDCSQG 180
DB 142 CLISGWSSTSPQLRPLHTLRCAITIEHOKCENAVPGNITDTWVCASVQEGGKDCSQG 201
QY 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVCKYVDWIOETMKN 229
DB 202 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVCKYVDWIOETMKN 250

RESULT 10
US-10-140-924-506
; Sequence 506, Application US/10140924
; Publication No. US20030134355A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Gurney, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C177
; CURRENT APPLICATION NUMBER: US/10/140,924
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; CURRENT FILING DATE: 2002-05-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 506
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-140-924-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFCKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 60
DB 22 IIKGFCKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 81
QY 61 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 120
DB 82 GCEQTRTATESFPHPGFNNSLPNKDHNDIMLVKMASPVSIITWAVRPLTSSRCVTAGTS 141
QY 121 CLISGWSSTSPQLRPLHTLRCAITIEHOKCENAVPGNITDTWVCASVQEGGKDCSQG 180
DB 142 CLISGWSSTSPQLRPLHTLRCAITIEHOKCENAVPGNITDTWVCASVQEGGKDCSQG 201
QY 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVCKYVDWIOETMKN 229
DB 202 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVCKYVDWIOETMKN 250

RESULT 11
US-10-140-926-506
; Sequence 506, Application US/10140926
; Publication No. US20030134356A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Gurney, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C187
; CURRENT APPLICATION NUMBER: US/10/140,926
; CURRENT FILING DATE: 2002-05-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 506
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-140-926-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 QY 121 CLISGWGTSSTPQLRPLPHTLRCAITIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 180  
 DB 142 CLISGWGTSSTPQLRPLPHTLRCAITIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 201  
 QY 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 229  
 DB 202 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 250

RESULT 12  
 US-10-141-698-506  
 ; Sequence 506, Application US/10141698  
 ; Publication No. US20030134357A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Beresini, Maureen  
 ; APPLICANT: DeForge, Laura  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Geritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Sherwood, Steven  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tamas, Daniel  
 ; APPLICANT: Watanabe, Colin K  
 ; APPLICANT: Wood, William  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P3330R1C206  
 ; CURRENT APPLICATION NUMBER: US/10/141,698  
 ; CURRENT FILING DATE: 2002-05-08  
 ; Prior Application removed - See Palm or File Wrapper  
 ; NUMBER OF SEQ ID NOS: 550  
 ; SEQ ID NO 506  
 ; LENGTH: 250  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien  
 US-10-141-698-506

Query Match 100.0%; Score 1258; DB 12; Length 250;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-118;  
 Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFCKPHSQPQWQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 60  
 DB 22 IIKGFCKPHSQPQWQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 81  
 QY 61 GCQTRTATESPFPQGNNSLPNKDHRNDIMLVQASPVSIITWAVRPLTLSSRCVTAAGTS 120  
 DB 82 GCQTRTATESPFPQGNNSLPNKDHRNDIMLVQASPVSIITWAVRPLTLSSRCVTAAGTS 141  
 QY 121 CLISGWGTSSTPQLRPLPHTLRCAITIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 180  
 DB 142 CLISGWGTSSTPQLRPLPHTLRCAITIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 201  
 QY 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 229  
 DB 202 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 250

RESULT 13  
 US-10-141-702-506  
 ; Sequence 506, Application US/10141702  
 ; Publication No. US20030134358A1

GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Beresini, Maureen  
 ; APPLICANT: DeForge, Laura  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Geritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Sherwood, Steven  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tamas, Daniel  
 ; APPLICANT: Watanabe, Colin K  
 ; APPLICANT: Wood, William  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P3330R1C208  
 ; CURRENT APPLICATION NUMBER: US/10/141,702  
 ; CURRENT FILING DATE: 2002-05-08  
 ; Prior Application removed - See Palm or File Wrapper  
 ; NUMBER OF SEQ ID NOS: 550  
 ; SEQ ID NO 506  
 ; LENGTH: 250  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien  
 US-10-141-702-506

Query Match 100.0%; Score 1258; DB 12; Length 250;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-118;  
 Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFCKPHSQPQWQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 60  
 DB 22 IIKGFCKPHSQPQWQAALFEKTRLLCGATLIAPRWLLTAACHLKPRYIVHLGQHNLOKEE 81  
 QY 61 GCQTRTATESPFPQGNNSLPNKDHRNDIMLVQASPVSIITWAVRPLTLSSRCVTAAGTS 120  
 DB 82 GCQTRTATESPFPQGNNSLPNKDHRNDIMLVQASPVSIITWAVRPLTLSSRCVTAAGTS 141  
 QY 121 CLISGWGTSSTPQLRPLPHTLRCAITIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 180  
 DB 142 CLISGWGTSSTPQLRPLPHTLRCAITIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 201  
 QY 181 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 229  
 DB 202 DSGGPLVCNQSLOGIISWGQDPCAITRKPGVYTKVKYVDWIQETMKN 250

RESULT 14  
 US-10-141-704-506  
 ; Sequence 506, Application US/10141704  
 ; Publication No. US20030134359A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Beresini, Maureen  
 ; APPLICANT: DeForge, Laura  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Geritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Sherwood, Steven  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tamas, Daniel  
 ; APPLICANT: Watanabe, Colin K  
 ; APPLICANT: Wood, William

```

; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C209
; CURRENT APPLICATION NUMBER: US/10/141,704
; PRIOR APPLICATION REMOVED - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 506
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-141-704-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFECKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 60
DB 22 IIKGFECKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 81

QY 61 GCQOTRTATESPPHGFNNSLPNKDHRNDIMLVKMASPVSIITWAVRPLTLSSRCVYTAGTS 120
DB 82 GCQOTRTATESPPHGFNNSLPNKDHRNDIMLVKMASPVSIITWAVRPLTLSSRCVYTAGTS 141

QY 121 CLISGWGSTSSPOLRLPHTLRCAITIIIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 180
DB 142 CLISGWGSTSSPOLRLPHTLRCAITIIIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 201

QY 181 DSGGPLVNCNQSLOGIISWGQDPCAITRKPGVYTKCKYVDNIQETMKN 229
DB 202 DSGGPLVNCNQSLOGIISWGQDPCAITRKPGVYTKCKYVDNIQETMKN 250

Search completed: October 22, 2003, 15:54:44
Job time : 22.9589 secs

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; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C209
; CURRENT APPLICATION NUMBER: US/10/141,704
; PRIOR APPLICATION REMOVED - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 506
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-141-704-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IIKGFECKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 60
DB 22 IIKGFECKPHSQPQQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIVHLGQHNLOKEE 81

QY 61 GCQOTRTATESPPHGFNNSLPNKDHRNDIMLVKMASPVSIITWAVRPLTLSSRCVYTAGTS 120
DB 82 GCQOTRTATESPPHGFNNSLPNKDHRNDIMLVKMASPVSIITWAVRPLTLSSRCVYTAGTS 141

QY 121 CLISGWGSTSSPOLRLPHTLRCAITIIIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 180
DB 142 CLISGWGSTSSPOLRLPHTLRCAITIIIEHOKCENAYPGNITDTMVCASVQEGGKDSQCG 201

QY 181 DSGGPLVNCNQSLOGIISWGQDPCAITRKPGVYTKCKYVDNIQETMKN 229
DB 202 DSGGPLVNCNQSLOGIISWGQDPCAITRKPGVYTKCKYVDNIQETMKN 250

RESULT 15
US-10-142-421-506
; Sequence 506, Application US/10142421
; Publication No. US20030134360A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C218
; CURRENT APPLICATION NUMBER: US/10/142,421
; CURRENT FILING DATE: 2002-05-09
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 506
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-142-421-506

Query Match      100.0%; Score 1258; DB 12; Length 250;
Best Local Similarity 100.0%; Pred. No. 1.4e-118;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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GenCore version 5.1.6  
Copyright (C) 1993 - 2003 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p3n model

Run on: October 23, 2003, 14:09:00 / Search time 3410.8 Seconds  
(without alignments)  
2746.659 Million cell updates/sec

Title: us-09-856-320a-2\_copy\_54\_282

Perfect score: 1258

Sequence: 1 IIKGFECKPHSGPWQALFE.....GVYTKYCKYVDWIOETMKNN 229

Scoring table: BLOSUM62

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Fgapop 6.0, Fgapext 7.0

Delop 6.0, Delext 7.0

Searched: 2888711 seqs, 2045481386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

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12: gb\_sy:  
13: gb\_un:  
14: gb\_vi:  
15: em\_ba:  
16: em\_fun:  
17: em\_hum:  
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19: em\_mu:  
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24: em\_ph:  
25: em\_pl:  
26: em\_ro:  
27: em\_scs:  
28: em\_un:

29: em\_vi:  
30: em\_hcg\_hum:  
31: em\_hcg\_inv:  
32: em\_hcg\_other:  
33: em\_hcg\_mus:  
34: em\_hcg\_pln:  
35: em\_hcg\_rod:  
36: em\_hcg\_mam:  
37: em\_hcg\_vrt:  
38: em\_sy:  
39: em\_hcg\_hum:  
40: em\_hcg\_mus:  
41: em\_hcg\_other:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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4	1258	100.0	1158	6	BD137020 Human CAS
5	1258	100.0	1181	9	AB013730 Homo sapi
6	1258	100.0	1186	9	AB012917 Homo sapi
7	1258	100.0	1192	6	AR152174 Sequence
8	1258	100.0	1204	6	AX358932 Sequence
9	1258	100.0	1204	6	AX362425 Sequence
10	1258	100.0	1204	6	AX454622 Sequence
11	1258	100.0	1204	6	AX464372 Sequence
12	1258	100.0	1204	6	AX491100 Sequence
13	1258	100.0	1204	6	AX697101 Sequence
14	1258	100.0	1213	9	BC022068 Homo sapi
15	1258	100.0	1301	6	BD091587 Novel ser
16	1258	100.0	1301	6	AB041036 Homo sapi
17	1258	100.0	1314	6	AR098430 Sequence
18	1258	100.0	1314	6	BD130920 Serine pr
19	1246	99.0	1166	6	AR152173 Sequence
20	1235.5	98.2	930	9	AB078780 Homo sapi
21	1235.5	98.2	934	6	BD091589
22	1228	97.6	1191	6	BD139483 Extended
23	1219.5	96.9	1052	6	AR219287 Sequence
24	1213	96.4	833	6	AR060847 Sequence
25	1213	96.4	833	6	BD082136 Novel pro
26	1062	84.4	1213	10	AB016226 Mus muscu
27	1062	84.4	1256	10	AB016227 Mus muscu
28	1062	84.4	1323	6	BD091588
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32	956	76.0	230000	9	AF243527 Homo sapi
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36	897.5	71.3	200792	2	AC130782 Pan trogl
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# ALIGNMENTS

RESULT 1

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LOCUS  
DEFINITION Sequence 1 from Patent W09949055.  
ACCESSION AX016287  
VERSION AX016287.1 GI:10041854  
KEYWORDS Homo sapiens (human)  
SOURCE  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Bruck,C.E., Coche,T., Cassart,J.P. and Vinals-Bassols,C.  
TITLE Human casb12 polypeptide, a serine protease  
JOURNAL Patent: WO 9949055-A 1 30-SEP-1999.  
BRUCK CLAUDE, ELVIRE MARIE (BE); SMITHKLINE BEECHAM BIOLOG (BE);  
COCHE THIERRY (BE); CASSART JEAN POL (BE); VINALS BASSOLS CARLOTTA  
(BE)  
FEATURES  
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Score: 1258.00 Matches: 229  
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Qy 41 HisCysLeuLeuProArgTrpIleValHisLeuGlyGlnHisAsnLeuGlyGlu 60  
Db 293 CACTGGCTCAAGCCCGCTCATAGTTCACTGGGGGACACACACTCCAGAGGAGGAG 352  
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Qy 121 CysLeuIleSerGlyTrpGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
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Qy 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyCysGlyAspSerCysGlnGly 180  
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Qy 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln 200

Db 713 GACTCGGGGGCCCTCTGTCTGTAAACAGGCTCTCTCAAGGCATTATCTCTCGGGCCAG 772  
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DEFINITION Human CASB 12 polypeptide, a serine protease.  
ACCESSION BD137019  
VERSION BD137019.1 GI:23231964  
KEYWORDS JP 2002507425-A/1.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
REFERENCE 1 (Bases 1 to 1106)  
AUTHORS Bruck,C.E.M., Cassart,J.P., Coche,T. and Bassols,C.V.  
TITLE Human CASB 12 polypeptide, a serine protease  
JOURNAL Patent: JP 2002507425-A 1 12-MAR-2002;  
SMITHKLINE BEECHAM BIOLOGICALS SA  
COMMENT OS Homo sapiens (human)  
PN JP 2002507425-A/1  
PD 12-MAR-2002  
PF 17-MAR-1999 JP 2000538015  
PR 20-MAR-1998 GB 9806095.7  
PI CLAUDE ELVIRE MARIE BRUCK, JEAN POL CASSART, THIERRY COCHE, PI  
CARLOTTA VINALS BASSOLS  
PC C12N15/09,A61K31/70,A61K38/00,A61P35/00,A61P37/02,C07K16/40,  
PC C12N1/15,C12N1/21,C12N5/10,C12N9/64,C12P21/02,C12Q1/02,C12Q1/  
PC 68,G01N33/15,  
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CC Human CASB 12 polypeptide, a serine protease. FX Key  
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Db 233 AAGACGGGCTACTCTGTGGGGGACGCTCATCGCCCCAGATGCTCTGCACAGC 292  
Qy 41 HisCysLeuLeuProArgTrpIleValHisLeuGlyGlnHisAsnLeuGlyGlu 60  
Db 293 CACTGGCTCAAGCCCGCTCATAGTTCACTGGGGGACACACACTCCAGAGGAGGAG 352



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Qy 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAsnSer 80
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Qy 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120
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Qy 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln 200
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Qy 201 AspProCysAlaIleThrArgLysProGlyValThrValCysValCysValValAsp 220
Db 773 GATCCGTGTGCGATCAACCGAAGGCTGTGTCTACACGAAAGTCTGCAAAATATGTGGAC 832
Qy 221 TrpIleGlnGluThrMetLysAsnAsn 229
Db 833 TGATCCAGGAGCAGTGAAGAACAAAT 859

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LOCUS
DEFINITION
Sequence 3 from Patent WO9949055.
ACCESSION
AX016289
VERSION
AX016289.1 GI:10041855
KEYWORDS
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SOURCE
Homo sapiens
ORGANISM
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1
Bruck,C.E., Coche,T., Cassart,J.P. and Vinals-Bassols,C.
Human casb12 polypeptide, a serine protease
Patent : WO 9949055-A 3 30-SEP-1999;
BRUCK CLAUDE ELVIRE MARIE (BE); SMITHKLINE BEECHAM BIOLOG (BE);
COCHE THIERRY (BE); CASSART JEAN POL (BE); VINALS BASSOLS CARLOTTA
(BE)
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BASE COUNT 274 a 359 c 306 g 219 t
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Alignment Scores:
Pred. No.: 4,35e-97 Length: 1158
Score: 1258.00 Matches: 229
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DBs: 6 Gaps: 0

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Db 363 CACTCCCTCAAGCCCGCTCATAGTTTCACCTGGGGGAGCAACAACCTCCAGAAGGAGGAG 422
Qy 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAsnSer 80
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Db 903 TGATCCAGGAGCAGTGAAGAACAAAT 929

RESULT 4
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LOCUS
DEFINITION
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ACCESSION
BD137020
VERSION
BD137020.1 GI:23231965
KEYWORDS
JP 2002507425-A/2.
SOURCE
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ORGANISM
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 1158)
Bruck,C.E.M., Cassart,J.P., Coche,T. and Bassols,C.V.
Human CASB 12 polypeptide, a serine protease
Patent : JP 2002507425-A 2 12-MAR-2002;
SMITHKLINE BEECHAM BIOLOGICALS SA
COMMENT
OS Homo sapiens (human)
PN JP 2002507425-A/2
PD 12-MAR-2002
PP 17-MAR-1999 JP 2000538015
PR 20-MAR-1998 GB 9806095.7
PI CLAUDINE ELVIRE MARIE BRUCK,JEAN POL CASSART,THIERRY COCHE, PI
PC CL2N15/09.A61K31/70, A61K38/00, A61P35/00, A61P37/02, C07K16/40,
PC CL2N1/15,
PC CL2N1/19, CL2N1/21, CL2N5/10, CL2N9/64, CL2P21/02, CL2P1/02, CL2P1/02, CL2P1/02

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PC 68.G01N33/15,  
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 Qy 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyLysAspSerCysGlnGly 180  
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 Db 843 GATCCGTGTGGGATACCCGGAAGCCCTGGGTGTACAGAAAGTCTGCAATATATGTGGAC 902  
 Qy 221 TrpIleGlnGluThrMetLysAsnAsn 229  
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## RESULT 5

AB013730  
 LOCUS Homo sapiens mRNA for Hippostasin, complete cds. PRI 20-JUN-2000  
 DEFINITION AB013730 1181 bp mRNA linear  
 ACCESSION AB013730  
 VERSION AB013730.1 GI:6681453  
 KEYWORDS Hippostasin.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1. (sites)  
 Authors: Yamaguchi, N., Yamada, T., Okui, A., Kominami, K., Uemura, H. and  
 Yamaguchi, N.  
 Title: A novel isoform of a kallikrein-like protease, TLSP/hippocastasin,  
 (PRSS20), is expressed in the human brain and prostate  
 Biochem. Biophys. Res. Commun. 272 (1), 205-211 (2000)  
 MEDLINE 20329229  
 PUBMED 10872828  
 REFERENCE 2. (bases 1 to 1181)  
 Authors: Yamaguchi, N. and Mitsui, S.  
 Title: Direct Submission  
 Journal: Submitted (09-MAY-1998) Nozomi Yamaguchi, Kyoto Prefectural  
 University of Medicine, Res. Ins. Geriatrics, Kawaramachi Hirokoji,  
 Kyoto, Kyoto 602-8566, Japan (E-mail: nozomi@koto.kpu-m.ac.jp).  
 Tel:81-75-251-5848, Fax:81-75-251-5848

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 Qy 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAsnSer 80  
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 484 ATCACTGGGCTGTGCGACCCCTCACCTCTCTCCAGCTGTGTCTGCTGCTGCGACGAGC 543  
 121 CysLeuLeuSerGlyTyrPglYserThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
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 141 ArgCysAlaAsnIleThrIleIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn 160  
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 201 AspProCysAlaIleThrArgLysProGlyValTyrThrLysValCysLysTyrValAsp 220  
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## RESULT 6

AB012917. 1186 bp mRNA linear PRI 31-JAN-2003  
 LOCUS Homo sapiens mRNA for serine protease (TLSP), complete cds.

## ACCESSION

AB012917.1 GI:3649790

## VERSION

TLSP; serine protease (TLSP).

## KEYWORDS

Homo sapiens (human)

## SOURCE

Homo sapiens

## ORGANISM

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

## REFERENCE

1. Yoshida, S., Taniguchi, M., Suemoto, T., Oka, T., He, X. and Shioeaka, S.

cDNA cloning and expression of a novel serine protease, TLSP

Biochim. Biophys. Acta 1399 (2-3), 225-228 (1998)

98438738

Submitted (10-Apr-1998) Shigetaka Yoshida, Department of Anatomy 1,

Asahikawa Medical College, Midorigaoka Higashi 2-1-1, Asahikawa,

Hokkaido 078-8510, Japan (E-mail: syoehida@asahikawa-med.ac.jp).

Tel: 81-156-68-2300, Fax: 81-156-68-2309

Location/Qualifiers

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 Best Local Similarity: 100.00% Mismatches: 0  
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US-09-856-320A-2\_COPY\_54\_282 (1-229) x AB012917 (1-1186)

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 Db 245 AAGACGCGGCTACTCTGTGGGCGAGCGCTCATCGCCCCCAGATGGCTCTCTGACAGAGCC 304  
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 Db 365 GCGTGTGAGCAGAGCCCGAGACCCACTGATGTCCTTCCCCACCCCGGCTTCAACAACAGC 424  
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 Qy 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
 Db 485 ATCACTGGGCTGTGCGACCCCTCACCTCTCTCACGCTGTGTCACTGCTGCGACCAAC 544  
 Qy 121 CysLeuLeuSerGlyTyrPglYserThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 Db 545 TGCTCTATTTCCGGGTGGGGCAGACAGCTCCAGGCCCGCAGTTACGCTGCTTACACCTTG 604  
 Qy 141 ArgCysAlaAsnIleThrIleIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn 160  
 Db 605 CGATGCGCCCAACATCACCATCATTTGAGCAGCAGAAAGTGTGAGAACGCTTACCCCGGCAAC 664  
 Qy 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyCysLysAspSerCysGlnGly 180  
 Db 665 ATCAAGACACCATGCTGTGTGCGACGCTGCGAGGAGGGGCAAGGACTCTCTGCGACGGT 724  
 Qy 181 AspSerGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln 200  
 Db 725 GACTCCGGGGCCCTCTGCTGTCTGTAAACAGTCTCTTCAAGGCAATATCTCTGGGGCCAG 784  
 Qy 201 AspProCysAlaIleThrArgLysProGlyValTyrThrLysValCysLysTyrValAsp 220  
 Db 785 GATCGGTGTGCATCACCCGAAAGCTGTGTCTACAGAAAGTGTGCAAAATATGTGGAC 844  
 Qy 221 TrpIleGlnGluThrMetLysAsnAsn 229  
 Db 845 TGGATCCAGGAGACGATGAAGCAAT 871

## RESULT 7

AR152174

LOCUS

Sequence 8 from patent US 6232456.

DEFINITION

AR152174

ACCESSION

AR152174.1

VERSION

GI:15118224

KEYWORDS

Unknown.

source

CDS

ORGANISM Unknown.  
 UNCLASSIFIED.  
 REFERENCE 1 (bases 1 to 1192)  
 AUTHORS Cohen, M., Colpitts, T.L., Friedman, P.N., Granados, B., Klass, M.R., Russell, J.C., Stewart, K.D. and Stroupe, S.D.  
 TITLE Serine protease reagents and methods useful for detecting and treating diseases of the prostate  
 JOURNAL Patent: US 6232456-A 8 15-MAY-2001;  
 FEATURES Location/Qualifiers  
 SOURCE 1..1192  
 /organism="unknown"  
 BASE COUNT 279 a 385 c 290 g 238 t  
 ORIGIN

Alignment Scores:  
 Pred. No.: 4,48e-97 Length: 1192  
 Score: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 6 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x AR152174 (1-1192)

QY 1 IleIleLeuGlyPheGluCysLeuProHisSerGlnProTrpGlnAlaAlaLeuPheGlu 20  
 DB 170 ATCATCAAGGGGTTTCAGTGTGACGCTCACTCCAGCCCTGGCAGCAGCCCTGTCGAG 229  
 QY 21 LysThrArgLeuLeuCysGlyAlaThrLeuIleAlaProArgTTPLeuLeuThrAlaAla 40  
 DB 230 AAGACCGCGCTACTCTGTGGGGCGACGCTCATCGCCCCAGATGCGCTCTGACAGCAGCC 289  
 QY 41 HisCysLeuLeuProArgTyrIleValHisLeuGlyGlnHisLeuGlnLysGluGlu 60  
 DB 290 CACTGCTCAAGCCCGCTACATAGTTCACTTGGGGCAGCACTCCAGAGGAGGAG 349  
 QY 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAsnSer 80  
 DB 350 GACTGTGAGCAGCCCGGACGACCTAGTACTCTTCCCGCCCGGCTTCACACAGC 409  
 QY 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
 DB 410 CTCGCCCAAGAACCCGCAATGACATCATCTGTTGAGATGGCATGCCAGTCTCC 469  
 QY 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
 DB 470 ATCACCTGGGCTGTGGACCCCTCACCTCTCTCCAGCTGTGTCACTGTGGCAGCAGC 529  
 QY 121 CysLeuIleSerGlyTTPGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 DB 530 TGCTCTATTTCGGGCTGGGGCAGCAGCTCCAGCCCGAGTTACGCTTCCCTCACACCTTG 589  
 QY 141 ArgCysAlaAsnIleThrIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn 160  
 DB 590 CGATGGCCCAATCACCATCTTTCAGCCAGCAGAGTGTGAGACGCTTCCCGGCAAC 649  
 QY 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyLysAspSerCysGlnGly 180  
 DB 650 ATCACAGACACCATGGTGTGGCAGCGTGCAGAGGGGGGCAAGGACTCTCTGCCAGGGT 709  
 QY 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTTPGlyGln 200  
 DB 710 GACTTCGGGGGCGCTCTGCTGTGTAAACAGTCTCTTCAAGGCATTATCTCTGGGGCCAG 769  
 QY 201 AspProCysAlaIleThrArgLysProGlyValTyrThrLysValCysLysTyrValAsp 220  
 DB 770 GATTCGTGTGCATCACCAGGACCTGTGTCTACAGAAAGTCTGCANATATGTGGAC 829  
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 DB 830 TGGATCCAGGACGATGAAGAAAT 856

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 LOCUS Sequence 195 from Patent WO0193932.  
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 ACCESSION AX358932  
 VERSION AX358932.1 GI:18675367  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Baker, K.P., Deenyers, L., Gerritsen, M.E., Goddard, A.,  
 Godowski, P.J., Grimaldi, J.C., Gurney, A.L., Smith, V., Stephan, J.P.,  
 Watanabe, C.K. and Wood, W.I.  
 TITLE Secreted and transmembrane polypeptides and nucleic acids encoding  
 the same  
 JOURNAL Patent: WO 0193932-A 185 13-DEC-2001;  
 Genentech Inc. (US)  
 FEATURES Location/Qualifiers  
 SOURCE 1..1204  
 /organism="Homo sapiens"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:9606"  
 BASE COUNT 306 a 364 c 294 g 240 t  
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Alignment Scores:  
 Pred. No.: 4,53e-97 Length: 1204  
 Score: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 6 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x AX358932 (1-1204)

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 DB 169 ATCATCAAGGGGTTTCAGTGTGACGCTCACTCCAGCCCTGGCAGCAGCCCTGTTTCAG 228  
 QY 21 LysThrArgLeuLeuCysGlyAlaThrLeuIleAlaProArgTTPLeuLeuThrAlaAla 40  
 DB 229 AAGACCGCGCTACTCTGTGGGGCGACGCTCATCGCCCCAGATGCGCTCTGACAGCAGCC 288  
 QY 41 HisCysLeuLeuProArgTyrIleValHisLeuGlyGlnHisLeuGlnLysGluGlu 60  
 DB 289 CACTGCTCAAGCCCGCTACATAGTTCACTTGGGGCAGCACTCCAGAGGAGGAG 348  
 QY 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAsnSer 80  
 DB 349 GGCTGTGAGCAGCAGCCCGGACGACCTAGTACTCTTCCCGCCCGGCTTCAACACAGC 408  
 QY 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
 DB 409 CTCGCCCAAGAACCCGCAATGACATCATCTGTTGAGATGGCATGCCAGTCTCC 468  
 QY 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
 DB 469 ATCACCTGGGCTGTGGACCCCTCACCTCTCTCCAGCTGTGTCACTGTGGCAGCAGC 528  
 QY 121 CysLeuIleSerGlyTTPGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 DB 529 TGCTCTATTTCGGGCTGGGGCAGCAGCTCCAGCCCGAGTTACGCTTCCCTCACACCTTG 588  
 QY 141 ArgCysAlaAsnIleThrIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn 160  
 DB 589 CGATGGCCCAATCACCATCTTTCAGCCAGCAGAGTGTGAGACGCTTCCCGGCAAC 648  
 QY 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyLysAspSerCysGlnGly 180  
 DB 649 ATCACAGACACCATGGTGTGGCAGCGTGCAGAGGGGGGCAAGGACTCTCTGCCAGGGT 708  
 QY 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTTPGlyGln 200

Db 709 GACTCCGGGGGCGCTCTGGTCTGTAACAGCTCTCTCAAGGATATCTCTCGGGGCGAG 768  
Qy 201 AspProCysAlaIleThrArgLysProGlyValThrThrValCysLysValAsp 220  
Db 769 GATCCGTGTGGCATCACCCGAAAGCTGCTGTCTACAGAAAGTCTGCAAAATATGTGGAC 828  
Qy 221 TrpIleGlnGluThrMetLysAsnAen 229  
Db 829 TGGATCCAGGAGCAGATGATGAGACAAAT 855  
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AX362425 1204 bp DNA linear PAT 15-FEB-2002  
LOCUS  
DEFINITION Sequence 185 from Patent WO0208288.  
ACCESSION AX362425  
VERSION AX362425.1 GI:18694670  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Baker, K.P., Desnoyers, L., Gerritsen, M.E., Goddard, A.,  
Goddard, P.J., Gimaldi, J.C., Gurney, A.L., Smith, V., Stephan, J.P.,  
Watanabe, C.K., and Wood, W.I.  
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding  
the same  
JOURNAL Patent: WO 0208288-A 185 31-JAN-2002;  
Genentech, Inc. (US)  
FEATURES  
source Location/Qualifiers  
1..1204  
/organism="Homo sapiens"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"  
BASE COUNT 306 a 364 c 294 g 240 t  
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Alignment Scores:  
Pred. No.: 4,53e-97 Length: 1204  
Score: 1258.00 Matches: 229  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
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Db 169 ATCATCAAGGGTTCAGTGCAGCTCCTCCAGCCCTGGCAGCGACCTGTTTCGAG 228  
Qy 21 LysThrArgLeuLeuCysGlyAlaThrLeuIleAlaProArgTrpLeuThrAlaAla 40  
Db 229 AAGACCGCGCTACTCTGTGGGGCGACGCTCATCGCCCGCCAGATGCTCTCCACAGCAGCC 288  
Qy 41 HisCysLeuLysProArgTyrlleValHisLeuGlyGlnHisAsnLeuGlnLysGlu 60  
Db 289 CACTGCTCAAGCCCGCTACATAGTTTCACTGGGGCAGCAACCTCCAGACGAGGAG 348  
Qy 61 GlyCysGluGlnThrArgThrAlaThrGlnSerPheProHisProGlyPheAsnSer 80  
Db 349 GGCTGTGACACACCGGACGACCACTGAGTCTTCCCGACCCCGCTTCAACACAGC 408  
Qy 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
Db 409 CTCCTCCACCAAGACACCGCAATGACATCATCTGTTGAGATGGCATGCCAGTCTCC 468  
Qy 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
Db 469 ATCACCTGGGCTGTGGACCCCTCACCCTCTCTCCTCAGCGTGTCTCACTGCTGGCAGCAGC 528  
Qy 121 CysLeuIleSerGlyTrpGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140

Db 529 TGCCTCATTTCCGGCTGGGACGACGCTCCAGCCCGCCAGTTACGCCCTGCACACCTTG 588  
Qy 141 AtgCysAlaIleThrIleLeuGluHisGlnLysCysGluAsnAlaIleTrpProGlyAsn 160  
Db 589 CGATCGGCAACATCACCATTCATTGAGCACCAAGAGTGTGAGAACGGCTTACCCCGGCAAC 648  
Qy 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyLysAspSerCysGlnGly 180  
Db 649 ATCAGACACCATGCTGTGTGCGACGCTGCGAGGAAGGGGCGCAGGACTCTCTCCAGGCT 708  
Qy 181 AppSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleLeuSerTrpGlyGln 200  
Db 709 GACTCCGGGGGCGCTCTGGTCTGTAAACAGTCTCTTCAAGGCATATCTCTCGGGGCGAG 768  
Qy 201 AspProCysAlaIleThrArgLysProGlyValThrThrValCysLysValAsp 220  
Db 769 GATCCGTGTGGCATCACCCGAAAGCTGCTGTCTACAGAAAGTCTGCAAAATATGTGGAC 828  
Qy 221 TrpIleGlnGluThrMetLysAsnAen 229  
Db 829 TGGATCCAGGAGCAGATGATGAGACAAAT 855  
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LOCUS  
DEFINITION Sequence 207 from Patent WO0208284.  
ACCESSION AX454622  
VERSION AX454622.1 GI:21713935  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Baker, K.P., Ferrata, N., Gerber, H., Gerritsen, M.E., Goddard, A.,  
Goddard, P.J., Gurney, A.L., Hillan, K.J., Marsters, S.A., Pan, J.,  
Paoni, N.F., Stephan, J.P., Watanabe, C.K., Williams, P.M., Wood, W.I.  
and Ye, W.  
TITLE Compositions and methods for the diagnosis and treatment of  
disorders involving angiogenesis  
JOURNAL Patent: WO 0208284-A 207 31-JAN-2002;  
Genentech, Inc. (US) ; Baker, Kevin P. (US) ; Ferrata, Napoleone  
(US) ; Gerber, Hanspeter (US) ; Gerritsen, Mary E. (US) ; Goddard,  
Audrey (US) ; Godowski, Paul J. (US) ; Gurney, Austin L. (US) ;  
Hillan, Kenneth J. (US) ; Marsters, Scot A. (US) ; Pan, James (US)  
; Paoni, Nicholas F. (US) ; Stephan, Jean-Philippe F. (US) ;  
Watanabe, Colin K. (US) ; Williams, P. Mickey (US) ; Wood, William  
I. (US)  
FEATURES  
source Location/Qualifiers  
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BASE COUNT 306 a 364 c 294 g 240 t  
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Pred. No.: 4,53e-97 Length: 1204  
Score: 1258.00 Matches: 229  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
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Qy 21 LysThrArgLeuLeuCysGlyAlaThrLeuIleAlaProArgTrpLeuThrAlaAla 40

Db 229 AAGACGGCGCTACTCTGTGGGGCGACGCTCATCGCCCCAGATGCTCTCTGACAGCAGCC 288  
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 Db 289 CACTGCTCAAGCCCGCTACATAGTTCACTCTGGGCGACCAACCTCCAGAGGAGGAG 348  
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 Db 349 GGCTGTGACGACGACCGGACAGCAGCTAGTGTCTTCCCCACCCCGGCTTCAACACAGC 408  
 Qy 81 LeuProHisLeuAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
 Db 409 CTCCCAACAAAGACCCGACATGACATCATCTGTGAATGGCATGCCAGTCTCC 468  
 Qy 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
 Db 469 ATCACCCTGGCTGTGGACCCCTCACCTCTCTCAGCTGTGTCACTGCTGGCACCAGC 528  
 Qy 121 CysLeuIleSerGlyTrpGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 Db 529 TGCTCTCATTTCCGGCTGGGGCAGCAGCTCCAGCCCCAGTTACGCTCTCCCTCACACCTTG 588  
 Qy 141 AtG9CysAlaAsnIleThrIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn 160  
 Db 589 CGATCGCCCAACATCACCATCATTTGACGACCAAGAGTGTGAGAACGCTTCCCGGCAAC 648  
 Qy 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyValAspSerCysGlnGly 180  
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 Qy 201 AspProCysAlaIleThrArgLysProGlyValTyrThrLysValCysLysTyrValAsp 220  
 Db 769 GATCCGTGTGCATCACCAGAAAGCTGTGTCTACACGAAAGTCTGCAATATGTGGAC 828  
 Qy 221 TrpIleGlnGluThrMetLysAsnAsn 229  
 Db 829 TGGATCCAGGACGATGAAGAACAAAT 855  
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 AX464372 1204 bp DNA linear PAT 16-JUL-2002  
 LOCUS Sequence 505 from Patent WO0140466.  
 DEFINITION AX464372  
 ACCESSION AX464372.1 GI:21899202  
 VERSION  
 KEYWORDS Homo sapiens (human)  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE  
 AUTHORS Baker, K.P., Baresini, M., Deforge, L., Desnoyers, L., Filvaroff, E.,  
 Gao, W.Q., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,  
 Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,  
 Wood, W.L., and Zhang, Z.  
 Titled and transmembrane polypeptides and nucleic acids encoding  
 same  
 JOURNAL Patent: WO 0140466-A 505 07-JUN-2001;  
 Genentech Inc. (US)  
 FEATURES  
 source Location/Qualifiers  
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 Pred. No.: 1258.00 Matches: 229  
 Score:

Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
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 Db 229 AAGACGGCGCTACTCTGTGGGCGACGCTCATCGCCCCAGATGCTCTCTGACAGCAGC 288  
 Qy 41 HicCysLeuLysProArgTyrIleValHisLeuGlyGlnHisAsnLeuGlnLysGluGlu 60  
 Db 289 CACTGCTCAAGCCCGCTACATAGTTCACTCTGGGCGACCAACCTCCAGAGGAGGAG 348  
 Qy 61 GIVCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAsnSer 80  
 Db 349 GGCTGTGACGACGACCGGACAGCAGCTAGTGTCTTCCCCACCCCGGCTTCAACACAGC 408  
 Qy 81 LeuProHisLeuAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
 Db 409 CTCCCAACAAAGACCCGACATGACATCATCTGTGAATGGCATGCCAGTCTCC 468  
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 Qy 121 CysLeuIleSerGlyTrpGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 Db 529 TGCTCTCATTTCCGGCTGGGGCAGCAGCTCCAGCCCCAGTTACGCTCTCCCTCACACCTTG 588  
 Qy 141 ArgCysAlaIleThrIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn 160  
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 Qy 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyValAspSerCysGlnGly 180  
 Db 649 ATCAGACAGCACCATGCTGTGGCAGGCTGCGAAGAGGGGCGAAGAGCTCTCCGCGGGT 708  
 Qy 181 AspSerGlyCysProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln 200  
 Db 709 GACTCGGGGGGCTCTGCTGTAAACAGTCTCTTCAAGGCATTATCTCTGGGGCCAG 768  
 Qy 201 AspProCysAlaIleThrArgLysProGlyValTyrThrLysValCysLysTyrValAsp 220  
 Db 769 GATCCGTGTGCATCACCAGAAAGCTGTGTCTACACGAAAGTCTGCAATATGTGGAC 828  
 Qy 221 TrpIleGlnGluThrMetLysAsnAsn 229  
 Db 829 TGGATCCAGGACGATGAAGAACAAAT 855  
 RESULT 12  
 AX491100 1204 bp DNA linear PAT 16-AUG-2002  
 LOCUS Sequence 207 from Patent WO0200690.  
 DEFINITION AX491100  
 ACCESSION AX491100.1 GI:22323887  
 VERSION  
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 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE  
 AUTHORS Baker, K.P., Ferrara, N., Gerber, H., Gerritsen, M.E., Goddard, A.,  
 Godowski, P.J., Gurney, A.L., Hillan, K.J., Marsters, S.A., Pan, J.,  
 Paoni, N.F., Stephen, J.P., Watanabe, C.K., Williams, P.M., Wood, W.L.,  
 and Ye, W.  
 Compositions and methods for the diagnosis and treatment of  
 disorders involving angiogenesis  
 TITLE

VERSION AX697101.1 GI:29498066  
 KEYWORDS  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE  
 AUTHORS Ferrara, N., Stewart, T.A., Williams, P.M., Baker, K.P., Desnovers, L.,  
 Eaton, D.L., Gao, W.Q., Pan, J., Becstein, D., Fong, S., Goddard, A.,  
 Godowski, P.J., Gurney, A.L., Smith, V., Thomas, D., Wood, W.L.,  
 Grimaldi, C.J., Hillan, K.J., Paoloni, N.F., Roy, M.A. and Watanabe, C.K.  
 Secreted and transmembrane polypeptides and nucleic acids encoding  
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 JOURNAL Patent: WO 0078961-A 169 28-DEC-2000;  
 Genentech Inc. (US)  
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 /mol\_type="genomic DNA"  
 /db\_xref="taxon:9606"  
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 US-09-856-320A-2\_COPY\_54\_282 (1-229) x AX697101 (1-1204)  
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 Db 169 ATCATCAAGGGGTTCGAGTGCAGACCCCTCACTCCAGCCCTGGCAGGAGCCCTGTTCCAG 228  
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 Qy 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisIsProGlyPheAsnAsnSer 80  
 Db 349 GGCCTGTGACGACACCGCGACAGCAGCCTGAGTCTCTCCCCACCCCGGTCTCAACACAGC 408  
 Qy 81 LeuProAsnLysAspHisAAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
 Db 409 CTCCCCAACAAAGACCCACCGCAATGACATCATGCTGGTGAAGATGGCATGCCAGTCTCC 468  
 Qy 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
 Db 459 ATCACTGGGGCTGTGGCAGCCCTCAACCTCTCTCAAGCTGTGTTCATCTGTGGCACCAGC 528  
 Qy 121 CysLeuIleSerGlyTTPGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 Db 529 TGCCTCATTTCCGGCTGGGGCGACGCTCAGCCGCCAGTGTACGCCCTGCCTCACACCTTG 598  
 Qy 141 ArgCysAlaAsnIleThrIleIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn 160  
 Db 589 CGATGCGCCCAACATCACCATCATTTGAGCACCAAGAAGTGTAGAAACGCTACTCCCGGCAAC 648  
 Qy 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyLysAspSerCysGlnGly 180  
 Db 649 ATCACAGACACCATGGTGTGTGCGACCGTGCAGGAAGGGGCAAGGACTCTCTCCAGGCT 708  
 Qy 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTTPGlyGln 200  
 Db 709 GACTCGGGGGCCCTCTGGTCTGTAAACCAAGTCTCTTCAGAGCACTATCTCTGGGGCCAG 768

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Qy 201 AppProCyAaIleThrArglyProGlyValTyThrIyValCyAlTyValAsp 220
Db 769 GATCCGTGTGGATCACCGAAGCGCTGGTGTCTACAGAAAGTCTGCAATATATGTGCAC 828

Qy 221 TrrileGlnGluThrMetIyAsnAsn 229
Db 829 TGGATCCAGGACGATGAAGAACAAAT 855

RESULT 14
BC022068 1213 bp mRNA linear PRI 24-JAN-2002
LOCUS Homo sapiens, kallikrein 11, clone MGC:33060 IMAGE:4824387, mRNA,
DEFINITION complete cds.
ACCESSION BC022068
VERSION 1 GI:18314497
KEYWORDS MGC
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1213)
AUTHORS Strausberg R.
TITLE Direct Submission
JOURNAL Submitted (22-JAN-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT Contact: MGC help desk
Email: cgapbs@mail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
CDNA Library Preparation: Michael J. Brownstein (NHGRI) & Shiraki
Toshiyuki and Piero Carninci (RIKEN)
cDNA Library Arrayed by: the I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Institute for Systems Biology
http://www.isysbiology.org
contact: anadansysbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Kettelman, Anuradha
Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAC Plate: 46 Row: m Column: 6
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 5803198.
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133..895
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BASE COUNT 290 a 376 c 296 g 251 t
ORIGIN

Alignment Scores: 4.57e-97 Length: 1213
Pred. No.: 1258.00 Matches: 229
Score: 100.00% Conservative: 0
Percent Similarity: "

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Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 5 Gaps: 0

US-09-856-320A-2_COPY_54_282 (1-229) x BC022068 (1-1213)

Qy 1 IletIyGlyGlyPheGluCysIySProHisGlnProTrpGlnAlaAlaIeuPheGlu 20
Db 196 ATCATCAAGGGTTTCGAGTTCGAAGCTCTCACTCCAGGCGCTGGCAGGCGCCCTGTTTCGAG 255

Qy 21 IySThrArgIeuIeuCysGlyAlaThrIeuIleAlaProArgTrpIeuIeuThrAlaAla 40
Db 256 AAGAGCGGGCTACTCTGTGGGGGAGCGCTCATGCCCCAGATGGCTCTCTGACAGCAGCC 315

Qy 41 HisCysIeuIySProArgTyrrileValHisIeuGlnHisIeuGlnIySValGlu 60
Db 316 CACTGCTTCAAGCCCCGCTACATAGTTCACTTGGGGGAGCACAACCTCCAGAGAGGAG 375

Qy 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAsnSer 80
Db 376 GGCTGTGAGCAGACCCGAGACCACTGAGTCTTCCGCCCCCGGCTTCAACACAGC 435

Qy 81 IeuProAsnIySAsHisArgAsnAspileMetIeuValIySMetAlaSerProValSer 100
Db 436 CTCGCCAACAAAGACCAACCGCAATCATCTGCTGAAGATGGCATCGCCAGTCTCC 495

Qy 101 IletThrTrpAlaValArgProIeuThrIeuSerSerArgCysValThrAlaGlyThrSer 120
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Qy 121 CysIeuIleSerGlyTrpGlySerThrSerSerProGlnIeuArgIeuProHisThrIeu 140
Db 556 TGCCTCATTTCCCGCTGGGGGAGCAGCGTCCAGCCCCCAGTTAGCCTGCTCTCACACCTTG 615

Qy 141 ArgCysAlaIeuIleThrIleIleGluHisGlnIySValGluIeuAlaIySProGlyAsn 160
Db 616 CGATGCGCCAACTACCATCATCTTGGAGCAGCAGAGTGTGAGAACGCTTACCCCGGCAAC 675

Qy 161 IletThrAspThrMetValCysAlaSerValGlnGluGlyIySValIySAspSerCysGlnGly 180
Db 676 ATCACAGACCATGTGTGTGTCAGCGTGGAGAGGGGCAAGCACTCTCTCCAGGGT 735

Qy 181 AspSerGlyIySProIeuValCysAsnGlnSerIeuGlnIySValIySAspSerCysGlnGly 200
Db 736 GACTCCGGGGGCGCTCTGTCTGTAAACGAGTCTTCAAGGCATTATCTCTCGGGGCCAG 795

Qy 201 AppProCysAlaIleThrArgIySProGlyValTyThrIyValCysIySValAsp 220
Db 796 GATCCGTGTGGATCACCGAAGCGCTGGTGTCTACAGAAAGTCTGCAATATATGTGCAC 855

Qy 221 TrrileGlnGluThrMetIyAsnAsn 229
Db 856 TGGATCCAGGACGATGAAGAACAAAT 882

RESULT 15
LOCUS BD091587 1301 bp DNA linear PAT 27-AUG-2002
DEFINITION Novel serine protease BSSP6.
ACCESSION BD091587
VERSION BD091587.1 GI:22637198
KEYWORDS WO 0031257-A/1.
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 1301)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE Uemura, H., Okui, A., Kominami, K., Yamaguchi, N. and Mitsui, S.
JOURNAL Novel serine protease BSSP6
Patent: WO 0031257-A 1 02-JUN-2000;
FUSO PHARMACEUTICAL INDUSTRIES LTD, HIDEOTOSHI UEMURA, AKIRA OKUI,
KATSUYA KOMINAMI, NOZOMI YAMAGUCHI, SHINICHI MITSUI
COMMENT OS Homo sapiens (human)
PN WO 0031257-A/1

```



PD 02-JUN-2000  
 PF 19-NOV-1999 WO 1999JP006476  
 PR 20-NOV-1998 JP 98P 347802  
 PI HIDEOTSHI UEMURA,AKIRA OKUI,KATSUYA KOMINAMI,NOZOMI YAMAGUCHI,  
 SHINICHI MITSUI  
 PC C12N15/12,C12N9/64,C12N5/06,C12N1/21,C07K16/40,C12P21/08,PC  
 A01K67/027,  
 PC G01N33/543

FEATURES source

Key Location/Qualifiers.  
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 /organism="Homo sapiens"  
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 332 a 397 c 330 g 252 t  
 ORIGIN

Alignment Scores:  
 Pred. NO.: 4.92e-97 Length: 1301  
 Score: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 6 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x BD091587 (1-1301)

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Qy	21	LysThrArgLeuLeuCysGlyValAlaThrLeuIleAlaProArgTrpLeuThrAlaAla	40
Db	332	AGACCGCGCTACTCTGTGGGGCGACGCTCATCGCCCGCAGATGCTCTGCACAGCAGCC	391
Qy	41	HisCysLeuLeuProArgTrpIleValHisLeuGlyGlnHisAsnLeuGlnLysGluGlu	60
Db	392	CACCTGCTCAAGCCCGCTACATAGTTCACTCGGGCAGCACAACCTCCAGAGGAGGAG	451
Qy	61	GlyCysGluGlnThrArgThrAlaThrGlnSerPheProHisProGlyPheAsnAsnSer	80
Db	452	GGCTGTGACGACCCGCGCAGCCACTGAGTCTCTCCCGCCCGGGTTCAACACAGC	511
Qy	81	LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer	100
Db	512	CTCCCCAACAAAGACCACCGCAATGACATCATCTGGTGAAGATGGCATCGCCAGTCTCC	571
Qy	101	IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer	120
Db	572	ATCACCCTGGGCTGTGGACCCCTCACCCTCTCTCCAGCTGTGTCTCTGGCCACGAGC	631
Qy	121	CysLeuIleSerGlyTrpGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu	140
Db	632	TGCCTCATTTCCGGCTGGGGCAGCAGCTCCAGCCCCAGTTAAGCCTGCTCCTCACACCTTG	691
Qy	141	ArgCysAlaAsnIleThrIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn	160
Db	692	CGATCGCCCAACATCACCATCATTGAGCACCAGAGTGTGAGACGCCCTACCCCGGCAAC	751
Qy	161	IleThrAspThrMetValCysAlaSerValGlnGlnGlyGlyLysAspSerCysGlnGly	180
Db	752	ATCACAGACACCATGGTGTGTGGCCAGGTCGACGAGGGGGCAGGACTCTCTGCCAGGGT	811
Qy	181	AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln	200
Db	812	GACTCGGGGGCCCTCTGGTCTGTAACCAAGTCTCTTCAAGGCATTATCTCTGGGGCCAG	871
Qy	201	AspProCysAlaIleThrArgLysProGlyValThrLysValCysLysTyrValAsp	220
Db	872	GATCCGTGTGCATCACCCGAAAGCCCTGTGTGTCTACACGAAAGTCTGCAAAATATGTGGAC	931
Qy	221	TrpIleGlnGluThrMetLysAsnAsn	229

Db 932 TGGATCCAGGAGACGATGAAGAACAAT 958  
 Search completed: October 23, 2003, 18:05:25  
 Job time : 3420.8 secs

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and is derived by analysis of the total score distribution.

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: October 23, 2003, 14:05:42 ; Search time 251.855 Seconds  
(without alignments)  
2454.471 Million cell updates/sec

Title: US-09-856-320A-2\_COPY\_54\_282

Perfect score: 1258  
Sequence: 1 IIKGECRPHSQMGAALPE.....GVYTKVCKYVDWQIETMKN 229

Scoring table:  
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Ygapop 10.0 , Ygapext 0.5  
Zgapop 6.0 , Zgapext 7.0  
Delop -6.0 , Delext 7.0

Searched: 252756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:  
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-O=/cgn2\_1/USPTO.spool/US09856320/runat\_22102003\_121413\_25652/app\_query.fasta\_1.846  
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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blomsum62 -TRANS=human40.cdi  
-LIST=45 -LOCAL -OUTFMT=ptc -THR\_SCORE=ptc -THR\_MAX=100 -THR\_MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
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-NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSBLOCKS=100 -LONGLOG  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1258	100.0	1106	20	CASB12 nucleotide
2	1258	100.0	1158	20	CASB12 derived fro
3	1258	100.0	1186	24	Prostate cancer-as
4	1258	100.0	1186	25	Lung cancer-associ
5	1258	100.0	1192	22	Human F5133 gene c
6	1258	100.0	1204	21	Human PRO1279 (UNQ
7	1258	100.0	1204	22	Human cDNA sequenc
8	1258	100.0	1204	22	Human cDNA sequenc
9	1258	100.0	1204	24	Human angiotensin
10	1258	100.0	1204	24	Human PRO1279 cDNA
11	1258	100.0	1204	24	CDNA encoding huma
12	1258	100.0	1204	25	CDNA encoding huma
13	1258	100.0	1204	25	Human cDNA encodin
14	1258	100.0	1204	25	DNA encoding novel
15	1258	100.0	1292	22	Human secreted pro
16	1258	100.0	1301	21	CDNA encoding huma
17	1258	100.0	1314	21	CDNA encoding a hu
18	1248	99.2	1146	20	Human secreted pro
19	1248	99.2	1146	22	Human secreted pro
20	1246	99.0	1166	22	Human F5133 consen
21	1235.5	98.2	934	21	CDNA encoding huma
22	1228	97.6	1191	20	Extended human sec
23	1227.5	97.6	1335	21	Nucleotide sequenc
24	1219.5	96.9	1052	21	Activation constru
25	1219.5	96.9	1052	22	Nucleotide sequenc
26	1213	96.4	833	19	DNA encoding a hum
27	1042	84.4	1323	21	CDNA encoding mous
28	1014.5	80.6	1164	24	DNA encoding human
29	916.5	72.9	618	24	Human G-protein-co
30	829	65.9	762	21	Human colon cancer
31	829	65.9	762	21	Human colon cancer
32	736	58.5	1375	22	Human cDNA encodin
33	736	58.5	1438	24	Human coding seque
34	734	58.3	1365	22	CDNA encoding nove
35	716	56.9	924	22	CDNA encoding nove
36	716	56.9	924	22	Human cDNA encodin
37	716	56.9	924	23	CDNA encoding nove
38	684	54.4	1322	24	Mouse ischaemic co
39	684	54.4	1333	17	Human neuropilin-9
40	684	54.4	1333	18	Mouse neuropilin-9
41	683	54.3	942	20	Human serine prote
42	682	54.2	963	24	Human protease, PR
43	682	54.2	963	24	DNA encoding novel
44	682	54.2	1278	24	CDNA encoding nove
45	681	54.1	809	23	DNA encoding novel

ALIGNMENTS

RESULT 1  
AAZ22638

ID AAZ22638 standard; CDNA; 1106 BP.

XX AC AAZ22638;

DT 08-DEC-1999 (first entry)

XX DE CASB12 nucleotide sequence.

XX KW neuropilin; cancer; assay; inhibitor; serine protease; immunogenic;

XX ds.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

FT CDS 14..862

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FT      / *tag= a
PT      / product= CASB12
PN      WO9949055-A1.
PX      XX
PD      30-SEP-1999.
XX      XX
PP      17-MAR-1999; 99WO-EP01894.
XX      XX
PR      20-MAR-1998; 98GB-0006095.
XX      XX
PA      (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX      XX
PI      Bruck CEM, Cassart J, Coche T, Vinals-Bassols C;
XX      WPI; 1999-580450/49.
XX      P-PSDB; AAY42440.
XX      XX
PT      New human serine protease CASB12, for treatment, prevention and
PT      diagnosis of cancer and autoimmune diseases -
XX      Claim 10; Page 47; 58pp; English.
XX      XX
CC      This is the nucleotide sequence of the CASB12 gene. The nucleotide
CC      sequence of AA222638 shows homology with neuropilin and the encoded
CC      protein AAY42439 is structurally related to other proteins of the
CC      serine protease family, having homology and/or structural similarity
CC      with neuropilin. It is expected that as well as similar structure, these
CC      proteins will also share similar biological functions and properties.
CC      The CASB12 polypeptides and polynucleotides can be used to develop
CC      methods for identifying agonists and antagonists/inhibitors of these
CC      molecules, and thereby creating conditions associated with CASB12
CC      polypeptide imbalance. The invention also provides for diagnostic assays
CC      for detecting diseases associated with inappropriate CASB12 polypeptide
CC      activity or levels.
CC      Since CASB12 is either specifically expressed or highly over-expressed
CC      in tumors compared to normal cells, the polypeptides and polynucleotides
CC      of the invention are believed to be important immunogens for specific
CC      prophylactic or therapeutic immunization against tumors. The
CC      polypeptides and polynucleotides can therefore be targeted by antigen
CC      specific immune reactions (which result in the destruction of the tumor
CC      cell) or they can be used to diagnose the occurrence of tumor cells.
XX      XX
SQ      Sequence 1106 BP; 247 A; 348 C; 287 G; 224 T; 0 other;

Alignment Scores:
Pred. No.: 4, 52e-105 Length: 1106
Score: 1258.00 Matches: 229
Percent Similarity: 100.00% Conservative: 0
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Query Match: 100.00% Indels: 0
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US-09-856-320A-2_COPY_54_282 (1-229) x AA222638 (1-1106)
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QY      21 LysThrArgLeuLeuCyglAlaThrlleuileAlaProArgTrpLeuThrAlaAla 40
DB      233 AAGACGGGCTACTCTGTGGGGGACGCTCATGCCCCCGAGATGGCTCTCAGACGAGCC 292
QY      41 HisCysLeuLeuProArgTyrileValHisLeuGlyGlnHisAsnLeuGlnLysGluGlu 60
DB      293 CACTGCTCAAGCCCGCTACATAGTTTCACTCCGGGCGAGCAACACTTCAGAGGGAGGAG 352
QY      61 GlyCysGlnLthrArgThrAlaThrlGluSerPheProHisProGlyPheAsnAsnSer 80
DB      353 GGCTGTGACGACAGCCGACGAGCCACTGAGTCTTTCCCAACCCCGGCTTCAACACAGC 412
QY      81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100

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DB      413 CTCGCCAACAGACACCGCAATCATCATGTGGTGAAGATGGCATCGGCACTCTCC 472
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DB      473 ATCAGCTGGGCTGTGGGACCCCTCTCCTCAGCTGTGTCTCAGCTGTGTCTGCGAC 532
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DB      533 TCCCTCATTTTCGGCTGGGGGAGACGCTCCAGCCCTTACGCTGTGCTCACCTTG 592
QY      141 ArgCysAlaAsnileThrIleileGlnHisGlnLysCysGlnAsnAlaTyrProGlyAsn 160
DB      593 CGATGCCCAACATCACCCTCATTTGAGCAGCAGAGTGTGAGAACCCCTTACCCCGGCAAC 552
QY      161 ileThrAspThrMetValCysAlaSerValGlnGluGlyGlyLysAspSerCysGlnGly 180
DB      653 ATCAGACACCATGGTGTGTGTCAGAGCTGCAGAGGGGGCAAGGACTCTCTGCCAGGGT 712
QY      181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleileSerTrpGlyGln 200
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QY      201 AspProCysAlaileThrArgLysProGlyValTyrThrLysValCysLysTyrValAsp 220
DB      773 GATCCGTGTGGATCACCAGCAAGCTGTGTGTACACGAAAGTCTGCAAAATATGTGGAC 832
QY      221 TrpIleGlnGluThrMetLysAsnAsn 229
DB      833 TCGATCCAGGAGACGATGAAGAACAAAT 859

RESULT 2
AA222639
ID      AA222639 standard; cDNA; 1158 BP.
XX      XX
AC      AA222639;
XX      XX
DT      08-DEC-1999 (first entry).
DE      CASB12 derived from Expressed Sequence Tag sequences.
XX      XX
KW      neuropilin; cancer; assay; inhibitor; serine protease; immunogenic;
KW      autoimmune disease; ds.
XX      XX
OS      Homo sapiens.
XX      XX
PH      Key Location/Qualifiers
PT      CDS 84..932
PT      FT /*tag= a
PT      FT /product= CASB12
XX      XX
PN      WO9949055-A1.
XX      XX
PD      30-SEP-1999.
XX      XX
PP      17-MAR-1999; 99WO-EP01894.
XX      XX
PR      20-MAR-1998; 98GB-0006095.
XX      XX
PA      (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
XX      XX
PI      Bruck CEM, Cassart J, Coche T, Vinals-Bassols C;
XX      WPI; 1999-580450/49.
XX      P-PSDB; AAY42440.
XX      XX
PT      New human serine protease CASB12, for treatment, prevention and
PT      diagnosis of cancer and autoimmune diseases -
XX      Claim 26; Page 49; 58pp; English.
XX      XX
CC      This is the nucleotide sequence of the CASB12 gene derived from
CC      Expressed Sequence Tag (EST) search for tumor-specific and
CC      tumor-associated antigens. The nucleotide sequence of AA222638 shows

```

CC homology with neuropilin and the encoded protein AYA42439 is structurally  
 CC related to other proteins of the serine protease family, having homology  
 CC and/or structural similarity with neuropilin. It is expected that as well  
 CC as similar structure, these proteins will also share similar biological  
 CC functions and properties.

CC The CASB12 polypeptides and polynucleotides can be used to develop  
 CC methods for identifying agonists and antagonists/inhibitors of these  
 CC molecules, and thereby treating conditions associated with CASB12  
 CC polypeptide imbalance. The invention also provides for diagnostic assays  
 CC for detecting diseases associated with inappropriate CASB12 polypeptide  
 CC activity or levels.

CC Since CASB12 is either specifically expressed or highly over-expressed  
 CC in tumors compared to normal cells, the polypeptides and polynucleotides  
 CC of the invention are believed to be important immunogens for specific  
 CC prophylactic or therapeutic immunization against tumors. The  
 CC polypeptides and polynucleotides can therefore be targeted by antigen  
 CC specific immune reactions (which result in the destruction of the tumor  
 CC cell) or they can be used to diagnose the occurrence of tumor cells

XX Sequence 1158 BP; 274 A; 359 C; 306 G; 219 T; 0 other;  
 SQ

## Alignment Scores:

Pred. No.: 4, 8e-105 Length: 1158  
 Score: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservativity: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 20 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x AA222639 (1-1158)

QV 1 IleilelygllypheclycyslypserprohiserGlnprotrpGlnAlaAlaLeuPheGlu 20  
 DB 243 ATCATCAAGGGTTTCAGTGCAGAGCTCACTCCAGCCCTGCAGGAGCCCTGTCGAG 302  
 QV 21 LysThrArgLeuLeuCyglValAlaThrleuilealprAargTTrpLeuThrAlaAla 40  
 DB 303 AAGACGGCTACTCTGAGGCGCAGCCTATCGCCCGCAGATGGCTCTCAGCAGAGCC 362  
 QV 41 HisCysLeuLeuProArgTyrIleValHisLeuGlyGlnHisAsnLeuGlyGluGlu 60  
 DB 363 CACTGCTCAAGCCCGCTACATAGTTCACTCGGGCAGCACAACCTCCAGAGGAGGAG 422  
 QV 61 GlyCysGluGlnThrArgThrAlaThrGlnSerPheProHisProGlyPheAsnAsnSer 80  
 DB 423 GGCTGTGAGCAGACCCGAGCAGCCACTGAGTCTCTTCCCGCCCGGCTTCAACACAGC 482  
 QV 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValIysMetAlaSerProValSer 100  
 DB 483 CTCCCAACACAGACCCAGCCAGCATCATGCTGTGAGATGGATGCCCGAGTCTCC 542  
 QV 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
 DB 543 ATCAGCTGGGCTGTGGACCCCTCCACTCTCTCAGCTGTGTCACTGGCGGACCCAGC 602  
 QV 121 CysLeuIleSerGlyTrpGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 DB 603 TGCTTCATTTCCGGTGGGCGAGCAGCTCCAGCCCGCCAGTTCAGCTGCTCCACACCTTG 662  
 QV 141 ArgCysAlaAsnIleThrIleGluGluHisGlyCysGluAsnAlaTyrProGlyAsn 160  
 DB 663 CGATGGCCCACTTCCATTCATTGACACCAAGATGTGAGAGCTCTCCCGGAC 722  
 QV 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyIlyAspSerCysGlnGly 180  
 DB 723 ATCAGACAGACCATGTGTGTGCGAGGCTGCAGAGAGGGGGAAGGAGCTCTCCGAGGGT 782  
 QV 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln 200  
 DB 783 GACTCGGGGGGCGCTCTGTCTGTAAACAGTCTCTTCAAGGCATTATCTCTCGGGGCGAG 842  
 QV 201 AspProCysAlaIleThrArgValProGlyValTyrThrLysValCysLysValValAsp 220

Db 843 GATCCCTGTGCGATCACCAGAAAGCTGTGTCTACACGAAAGTCTGCAAAATATGTGGAC 902  
 QV 221 TptlleGlnGluThrMetLysAsnAsn 229  
 DB 903 TGGATCCAGAGACGATGAAGAACAAT 929

## RESULT 3

ABK92131  
 ID ABK92131 standard; DNA; 1186 BP.

XX ABK92131;

XX 15-AUG-2002 (first entry)

XX Prostate cancer-associated DNA sequence #17.

XX Prostate cancer; prostate tumour tissue; human; mammal; cytostatic;  
 Gene therapy; Gene; ds.

XX Mammalia.

XX WO200230268-A2.

XX 18-APR-2002.

XX 12-OCT-2001; 2001WO-US2045.

XX 13-OCT-2000; 2000US-0687576.

XX 08-DEC-2000; 2000US-0733288.

XX 08-DEC-2000; 2000US-0733742.

XX 24-JAN-2001; 2001US-263957P.

XX 16-MAR-2001; 2001US-276791P.

XX 16-MAR-2001; 2001US-276888P.

XX 08-APR-2001; 2001US-281922P.

XX 24-APR-2001; 2001US-285214P.

XX 30-APR-2001; 2001US-0847046.

XX 04-MAY-2001; 2001US-289599P.

XX (EOSB-) EOS BIOTECHNOLOGY INC.

XX Gish KC, MacK DH, Wilson KE, Afar D, Hevezi P;

XX P-PSDB; ABG61816.

XX WPI; 2002-471335/50.  
 XX P-PSDB; ABG61816.

XX Detecting a prostate cancer-associated transcript in a cell in a  
 XX patient, useful for diagnosing prostate cancer (PC) or screening  
 XX modulators of PC, by determining if prostate cancer-associated genes  
 XX are expressed in a prostate tissue

XX Claim 22; Page 313; 436pp; English.

XX The present invention relates to methods of detecting a prostate  
 XX cancer-associated transcript in a cell from a patient. The method  
 XX comprises contacting a biological sample from the patient with  
 XX prostate cancer-associated polynucleotides (designated PC genes) that  
 XX selectively hybridize to a sequence that is at least 80% identical  
 XX to them. The prostate cancer-associated polynucleotide sequences  
 XX are differentially expressed in prostate tumour tissue or in  
 XX prostate cancer and are derived from the tissues of various  
 XX organisms such as humans or other mammals (e.g. mice, sheep and dogs).

XX The methods of the invention are useful for diagnosing and treating  
 XX prostate cancer in mammals. The prostate cancer-associated genes are  
 XX useful for diagnosing or treating prostate cancer, as well as for  
 XX identifying modulators of prostate cancer or agents that inhibit  
 XX prostate cancer. The nucleic acid sequences are particularly useful  
 XX in gene therapy, as a vaccine or in antisense applications.

XX ABK92115-ABK92263 represent prostate cancer-associated polynucleotide  
 XX sequences.

XX SQ Sequence 1186 BP; 272 A; 368 C; 302 G; 244 T; 0 other;

XX Alignment Scores:

Pred. No.: 4,95e-105 Length: 1186  
 Score: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservativity: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 24 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x ABK91311 (1-1186)

Qy 1 IlelelysclyPheGluCyslyAspProHisSerGlnProTropGlnAlaAlaLeuPheGlu 20  
 Db 185 ATCATCAAGGGGTTGAGTGAACCTCACTCCAGCCCTGGAGCAGCCCTGTTCGAG 244  
 Qy 21 LysThrArgLeuLeuCyGlyAlaThrLeuLeuAlaProArgTrpLeuLeuThraAla 40  
 Db 245 AAGACCGCGCTACTCTGTGGGCGCAGCTCATGCCGCCAGATGCTCTGACAGCAGCC 304  
 Qy 41 HisCysLeuLeuProArgTrpIleValHisLeuGlyGlnHisAsnLeuGlyGluGlu 60  
 Db 305 CACTGCGCTCAAGCCCGCTACATAGTTCACTGGGCGCAGCAACCTCCAGAGGAGGAG 364  
 Qy 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnSer 80  
 Db 365 GGTGTGTGAGCAGCCGCGACAGCAGCTAGTCTTCCCAACCCCGCTTCAACAGCAGC 424  
 Qy 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
 Db 425 CTCCCAACAAGACCCGCAATGATCATGCTGTGAAGATGGCATGCCAGTCTCC 484  
 Qy 101 IleThrTrpAlaValArgProLeuThrLeuSerArgCysValThrAlaGlyThrSer 120  
 Db 485 ATCACTGGGCTGTGCGACCCCTCACCTCTCTCCTCAGCTGTGTCTGTCGACAGC 544  
 Qy 121 CysLeuLeuSerGlyTrpGlySerThrSerProGlnLeuArgLeuProHisThrLeu 140  
 Db 545 TGCTCTCATTTCCGCTGGGCGCAGCAGCTCCAGCCCGCAGTTAGCTGCTGCTCAACCTTG 604  
 Qy 141 ArgCysAlaAsnIleThrIleGlnHisGlnLysCysGluAsnAlaTyProGlyAsn 160  
 Db 605 CGATGGCCCAACATCACCATCATTTGAGCAGCAGAAAGTGTGAGAGCGCTATCCCGGCAAC 664  
 Qy 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyLysAspSerCysGlnGly 180  
 Db 665 ATCAGACAGCACCATTGTTGTGCGAGCGTGCAGGAGGGGGCAAGGACTCTCTGCGAGGT 724  
 Qy 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleLeuSerTrpGlyGln 200  
 Db 725 GACTCCGGGGCCCTCTGCTGTCTGTAACAGTCTCTTCAAGGCATTATCTCTGGGGCCAG 784  
 Qy 201 AspProCysAlaIleThrArgGlyProGlyValTyThrIleValCysLeuTyValAsp 220  
 Db 785 GATCCGTGTGCGATCACCAGAAAGCTGTGTCTACAGAAAGTCTGCAAAATATGTGGAC 844  
 Qy 221 TrpIleGlnGlnThrMetLysAsnAsn 229  
 Db 845 TGGATCCAGGAGCAGTGAAGAACAAAT 871  
 RESULT 4  
 ABX76468  
 ID ABX76468 standard; DNA; 1186 BP.  
 AC ABX76468;  
 XX  
 Dt 02-APR-2003 (first entry)  
 XX  
 LUNG cancer-associated polynucleotide #332.  
 LUNG cancer-associated polynucleotide; gene; ds; cytostatic; emphysema;  
 antiinflammatory; antiasthmatic; non-small cell lung cancer; atelectasis;  
 small cell lung cancer; benign lesion; precancerous lesion; bronchitis;  
 chronic obstructive pulmonary disease; hypersensitivity pneumonitis;  
 interstitial pulmonary fibrosis; fibrosis; asthma; bronchiectasis.

Unidentified.  
 WO200286443-A2.  
 31-OCT-2002.  
 18-APR-2002; 2002WO-US12476.  
 18-APR-2001; 2001US-284770P.  
 10-MAY-2001; 2001US-290492P.  
 09-NOV-2001; 2001US-339245P.  
 13-NOV-2001; 2001US-350686P.  
 29-NOV-2001; 2001US-334370P.  
 12-APR-2002; 2002US-372246P.  
 (BOSB-) EOS BIOTECHNOLOGY INC.  
 Aziz N, Murray R;  
 WPI; 2003-093161/08.  
 P-PSDB; ABUS6739.

Detecting a lung cancer-associated transcript in a cell from a patient for treating lung cancer, by contacting a biological sample from the patient with a polynucleotide that exhibits increased or decreased expression in lung cancer.

Claim 22; Page 443; 453pp; English.

The invention relates to a method for detecting a lung cancer-associated transcript in a cell from a patient, comprising contacting a biological sample from the patient with a polynucleotide that selectively hybridizes to a sequence that is at least 80% identical to a gene that exhibits increased or decreased expression in lung cancer samples. Lung cancer-associated polynucleotides and polypeptides are used for identifying a compound that modulates a lung cancer-associated polypeptide, for inhibiting proliferation of a lung cancer-associated cell to treat lung cancer in a patient and for treating a mammal having lung cancer by administering a modulatory compound identified. The methods are useful for treating lung cancer, such as small cell lung cancer, non-small cell lung cancer or other benign or precancerous lesions, e.g. atelectasis, emphysema, bronchitis, chronic obstructive pulmonary disease, fibrosis, hypersensitivity pneumonitis, interstitial pulmonary fibrosis, asthma and bronchiectasis. The genes, polynucleotides and polypeptides are useful for diagnostic purposes and as targets for screening for therapeutic compounds that modulate lung cancer, such as antibodies. Sequences ABX76124-ABX76174 represent lung cancer-associated polynucleotides of the invention.

Sequence 1186 BP; 272 A; 368 C; 302 G; 244 T; 0 other;

Alignment Scores:  
 Pred. No.: 4,95e-105 Length: 1186  
 Score: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservativity: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 25 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x ABX76468 (1-1186)

Qy 1 IlelelysclyPheGluCyslyAspProHisSerGlnProTropGlnAlaAlaLeuPheGlu 20  
 Db 185 ATCATCAAGGGGTTGAGTGAACCTCACTCCAGCCCTGGAGCAGCCCTGTTCGAG 244  
 Qy 21 LysThrArgLeuLeuCyGlyAlaThrLeuLeuAlaProArgTrpLeuLeuThraAla 40  
 Db 245 AAGACCGCGCTACTCTGTGGGCGCAGCTCATGCCGCCAGATGCTCTGACAGCAGCC 304  
 Qy 41 HisCysLeuLeuProArgTrpIleValHisLeuGlyGlnHisAsnLeuGlyGluGlu 60  
 Db 305 CACTGCGCTCAAGCCCGCTACATAGTTCACTGGGCGCAGCAACCTCCAGAGGAGGAG 364

QY 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAenSer 80  
 DB 365 GGCTGTGAGCAGACCCGGACAGCACTGAGTCTTCCCTCCACCCGCTTCAACACAGC 424  
 QY 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValIleMetAlaSerProValSer 100  
 DB 425 CTCCCAACAAACACACACCGCATGACATCATGTGTGAATGGCATCGCCAGTCTCC 484  
 QY 101 IleThrTrpAlaValArgProLeuThrIleuSerSerArgCysValThrAlaGlyThrSer 120  
 DB 485 ATCACCCTGGGCTGTGGACCCCTCACTCCCTCTCTCAGCGTGTGTCACTCTGGCACCAGC 544  
 QY 121 CysLeuIleSerGlyTrpGlySerThrSerProGlnLeuArgLeuProHisThrLeu 140  
 DB 545 TGCCTCATTTCCGGCTGGGGGACGACGTCAGCCGCCCATGTTAGCGCTGCTCACACCTTG 604  
 QY 141 ArgCysAlaAsnIleThrIleIleGluHisGlnLysCysGluAsnAlaThrProGlyAsn 160  
 DB 605 CGATGGCCCAACATCATCATCTTGAAGCAGGAGTGTGAGAACCCCTACCCCGGCCAAC 664  
 QY 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyLysAspSerCysGlnGly 180  
 DB 665 ATCAGACACACCATGTGTGTGCCAGCTGCAGGAAGGGGCAAGGACTCTCTGCCAGGT 724  
 QY 181 AspSerGlyCysProLeuValCysAsnGlnSerLeuGlnIleIleIleSerTrpGlyGln 200  
 DB 725 GACTCTGGGGGCGCTCTGTCTGTAAACAGTCTCTTCAAGGCATATCTCTGTGGGCGCAG 784  
 QY 201 AspProCysAlaIleThrArgLysProGlyValIleThrLysValCysAlaLysValAsp 220  
 DB 785 GATCCGTGTGGCATCACCCGAAGCCTGGTGTCTACAGGAAGCTGTGCANATATGTGGAC 844  
 QY 221 TrpIleGlnGluThrMetLysAsnAsn 229  
 DB 845 TGGATCCAGGACCATGAGAACAT 871

RESULT 5  
 AAD14842  
 ID AAD14842 standard; DNA; 1192 BP.  
 XX AC  
 AAD14842;  
 XX  
 DT 01-NOV-2001 (first entry)  
 XX  
 DE Human PS133 gene contig.  
 XX  
 KW Human; PS133; prostate disease; cancer; immunogen; gene therapy; EST;  
 KW expressed sequence tag; cytostatic; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 XX Key Location/Qualifiers  
 XX CDS 107..859  
 XX /\*tag= a  
 XX /product= "Human PS133 protein"  
 XX /transl\_except= (pos:198..196, aa:Cys-Pro)  
 XX /transl\_except= (pos:224..232, aa:Phe-Lys)  
 XX  
 XX US6232456-B1.  
 XX  
 XX PD 15-MAY-2001.  
 XX  
 XX PF 06-OCT-1997; 97US-0944483.  
 XX  
 XX PR 06-OCT-1997; 97US-0944483.  
 XX  
 XX (ABBO ) ABBOTT LAB.  
 XX  
 XX Cohen M, Colpitts TV, Friedman PN, Granados E, Klass MR,  
 XX Russell JC, Stewart KD, Stroupe SD;  
 XX MPI; 2001-166357/38.  
 XX P-PSDB; AA308017.

XX New PS133 polynucleotides, useful for detecting, diagnosing, staging,  
 PT monitoring, progressing, preventing, treating or determining the  
 PT predisposition of an individual to a prostate disease, e.g. cancer -  
 XX  
 PS Claim 1; Column 71-74; 93pp; English.  
 XX  
 CC The patent discloses PS133 polynucleotides and polypeptides which  
 CC are indicative of prostate disease. The patent also provides a method  
 CC for detecting PS133 protein in a test sample. The polynucleotides of  
 CC the invention are useful for detecting, diagnosing, staging, monitoring,  
 CC progressing, preventing, treating or determining the predisposition of  
 CC an individual to prostate diseases such as cancer. PS133-derived  
 CC polynucleotides are used for the detection of normal or altered gene  
 CC expression in assays for detecting, amplifying or quantifying genes  
 CC or nucleic acids relating to prostate tissue diseases and conditions,  
 CC and to produce probes which can be used in the detection of nucleic  
 CC acids in a sample. PS133 proteins are used as immunogens for the  
 CC production of antibodies. PS133 sequences are also used in gene  
 CC therapy. The present sequence is human PS133 gene contig.  
 XX  
 SQ Sequence 1192 BP; 279 A; 385 C; 290 G; 238 T; 0 other;  
 Alignment Scores:  
 Pred. No.: 4.98e-105 Length: 1192  
 Score: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 22 Gaps: 0  
 US-09-856-320A-2\_COPY\_54\_282 (1-229) x AAD14842 (1-1192)  
 QY 1 IleIleLysGlyPheGluCysLysProHisSerGlnProTrpGlnAlaLeuPheGlu 20  
 DB 170 ATCATCAAGGGTTCGAGTGCAGCCTCACTCCAGCCCTGGCAGGCGCCTGTTCCGAG 229  
 QY 21 LysThrArgLeuLeuGlyGlyAlaThrIleuIleAlaProArgTrpLeuThrAlaAla 40  
 DB 230 AAGACCGCGTACTCTGTGGGCGAGCGCTCATCGCCCGCCAGTGGCTCTTCAGCAGGCC 289  
 QY 41 HisCysLeuLysProArgTyrIleValHisLeuGlyGlnHisAsnLeuGlnLysGluGlu 60  
 DB 290 CACTGCTCTCAAGCCCGCTACATAGTTCACCTGGGCGCAGCAACACCTCCAGAGGAGGAG 349  
 QY 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAenSer 80  
 DB 350 GGCTGTGAGCAGACCCGGACAGCCACTGAGTCTTCCCGCCAGCCCGGCTTCAACACAGC 409  
 QY 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValIleMetAlaSerProValSer 100  
 DB 410 CTCCCAACAAACACACCGCATGACATCATGTGTGAATGGCATCGCCAGTCTCC 469  
 QY 101 IleThrTrpAlaValArgProLeuThrIleuSerSerArgCysValThrAlaGlyThrSer 120  
 DB 470 ATCACCCTGGGCTGTGGACCCCTCACTCCCTCTCTCAGCGTGTGTCACTCTGGCACCAGC 529  
 QY 121 CysLeuIleSerGlyTrpGlySerThrSerProGlnLeuArgLeuProHisThrLeu 140  
 DB 530 TGCCTCATTTCCGGCTGGGGGACGACGTCAGCCGCCCATGTTAGCGCTGCTCACACCTTG 589  
 QY 141 ArgCysAlaAsnIleThrIleIleGluHisGlnLysCysGluAsnAlaThrProGlyAsn 160  
 DB 590 CGATGGCCCAACATCATCATCTTGAAGCAGGAGTGTGAGAACCCCTACCCCGGCCAAC 649  
 QY 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyLysAspSerCysGlnGly 180  
 DB 650 ATCAGACACACCATGTGTGTGCCAGCTGTGAGAACCCCTACCCCGGCCAAC 709  
 QY 181 AspSerGlyCysProLeuValCysAsnGlnSerLeuGlnIleIleIleSerTrpGlyGln 200  
 DB 710 GACTCGGGGGCGCTCTGTGTCTGTAAACAGTCTCTTCAAGGCATATATCTCTCGGGGCCAG 769

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QY 201 AspProCysAlaIleThrArgLysProGlyValTyrThrLysValCysLysTyrValAsp 220
Db |||||||
QY 770 GATCGGTGGCATACCCGAAACCCCTGGTGTCTACACGAAGTCTGCAATATGTGGAC 829
Db |||||||
QY 221 TrpIleGlnGluThrMetLysAsn 229
Db 830 TGGATCCAGGACGATGAAGACAAT 856

RESULT 6
AAA37072
ID AAA37072 standard; cDNA, 1204 BP.
AC AAA37072;
XX
XX
DT 08-AUG-2000 (first entry)
XX
XX Human PRG1279 (UNQ649) cDNA sequence SEQ ID NO:169.
DE
XX Human; PRO polypeptide; membrane bound protein; receptor; diagnosis;
KW transmembrane; secretion; immunoadhesion; pharmaceutical; screening;
NW ss.
XX
XX Homo sapiens.
XX
XX WO200012708-A2.
PN
XX
XX
XX 09-MAR-2000.
XX
XX 01-SEP-1999; 99WO-US20111.
PF
XX 01-SEP-1998; 98US-0098716.
PR 01-SEP-1998; 98US-0098749.
PR 01-SEP-1998; 98US-0098750.
PR 02-SEP-1998; 98US-0098803.
PR 02-SEP-1998; 98US-0098821.
PR 02-SEP-1998; 98US-0098843.
PR 09-SEP-1998; 98US-0099536.
PR 09-SEP-1998; 98US-0099596.
PR 09-SEP-1998; 98US-0099598.
PR 09-SEP-1998; 98US-0099602.
PR 09-SEP-1998; 98US-0099642.
PR 10-SEP-1998; 98US-0099741.
PR 10-SEP-1998; 98US-0099754.
PR 10-SEP-1998; 98US-0099763.
PR 10-SEP-1998; 98US-0099792.
PR 10-SEP-1998; 98US-0099808.
PR 10-SEP-1998; 98US-0099812.
PR 10-SEP-1998; 98US-0099815.
PR 15-SEP-1998; 98US-0099816.
PR 15-SEP-1998; 98US-0100385.
PR 15-SEP-1998; 98US-0100390.
PR 15-SEP-1998; 98US-0100398.
PR 16-SEP-1998; 98US-0100584.
PR 16-SEP-1998; 98US-0100627.
PR 16-SEP-1998; 98US-0100651.
PR 16-SEP-1998; 98US-0100681.
PR 16-SEP-1998; 98US-0100684.
PR 17-SEP-1998; 98US-0100683.
PR 17-SEP-1998; 98US-0100710.
PR 17-SEP-1998; 98US-0100711.
PR 17-SEP-1998; 98US-0100919.
PR 17-SEP-1998; 98US-0100930.
PR 18-SEP-1998; 98US-0100848.
PR 18-SEP-1998; 98US-0100849.
PR 18-SEP-1998; 98US-0101014.
PR 18-SEP-1998; 98US-0101068.
PR 18-SEP-1998; 98US-0101071.
PR 22-SEP-1998; 98US-0101279.
PR 23-SEP-1998; 98US-0101471.
PR 23-SEP-1998; 98US-0101472.
PR 23-SEP-1998; 98US-0101474.
PR 23-SEP-1998; 98US-0101475.
PR 23-SEP-1998; 98US-0101476.
PR 23-SEP-1998; 98US-0101477.
PR 23-SEP-1998; 98US-0101479.
PR 24-SEP-1998; 98US-0101738.
PR 24-SEP-1998; 98US-0101741.
PR 24-SEP-1998; 98US-0101743.
PR 24-SEP-1998; 98US-0101915.
PR 24-SEP-1998; 98US-0101916.
PR 29-SEP-1998; 98US-0102207.
PR 29-SEP-1998; 98US-0102240.
PR 29-SEP-1998; 98US-0102307.
PR 29-SEP-1998; 98US-0102330.
PR 29-SEP-1998; 98US-0102331.
PR 30-SEP-1998; 98US-0102484.
PR 30-SEP-1998; 98US-0102487.
PR 30-SEP-1998; 98US-0102487.
PR 30-SEP-1998; 98US-0102570.
PR 30-SEP-1998; 98US-0102571.
PR 01-OCT-1998; 98US-0102684.
PR 01-OCT-1998; 98US-0102687.
PR 02-OCT-1998; 98US-0102965.
PR 06-OCT-1998; 98US-0103258.
PR 06-OCT-1998; 98US-0103449.
PR 07-OCT-1998; 98US-0103314.
PR 07-OCT-1998; 98US-0103315.
PR 07-OCT-1998; 98US-0103328.
PR 07-OCT-1998; 98US-0103395.
PR 07-OCT-1998; 98US-0103395.
PR 07-OCT-1998; 98US-0103401.
PR 08-OCT-1998; 98US-0103633.
PR 08-OCT-1998; 98US-0103678.
PR 08-OCT-1998; 98US-0103679.
PR 08-OCT-1998; 98US-0103711.
PR 14-OCT-1998; 98US-0104257.
PR 20-OCT-1998; 98US-0104987.
PR 20-OCT-1998; 98US-0105000.
PR 20-OCT-1998; 98US-0105002.
PR 21-OCT-1998; 98US-0105104.
PR 22-OCT-1998; 98US-0105159.
PR 22-OCT-1998; 98US-0105266.
PR 26-OCT-1998; 98US-0105693.
PR 26-OCT-1998; 98US-0105694.
PR 27-OCT-1998; 98US-0105807.
PR 27-OCT-1998; 98US-0105881.
PR 27-OCT-1998; 98US-0105882.
PR 28-OCT-1998; 98US-0106023.
PR 28-OCT-1998; 98US-0106029.
PR 28-OCT-1998; 98US-0106030.
PR 28-OCT-1998; 98US-0106032.
PR 28-OCT-1998; 98US-0106033.
PR 28-OCT-1998; 98US-0106178.
PR 29-OCT-1998; 98US-0106248.
PR 29-OCT-1998; 98US-0106384.
PR 29-OCT-1998; 98US-0106500.
PR 30-OCT-1998; 98US-0106464.
PR 03-NOV-1998; 98US-0106566.
PR 03-NOV-1998; 98US-0106502.
PR 03-NOV-1998; 98US-0106505.
PR 03-NOV-1998; 98US-0106919.
PR 03-NOV-1998; 98US-0106932.
PR 03-NOV-1998; 98US-0106934.
PR 10-NOV-1998; 98US-0107783.
PR 17-NOV-1998; 98US-0108775.
PR 17-NOV-1998; 98US-0108779.
PR 17-NOV-1998; 98US-0108787.
PR 17-NOV-1998; 98US-0108788.
PR 17-NOV-1998; 98US-0108801.
PR 17-NOV-1998; 98US-0108802.
PR 17-NOV-1998; 98US-0108806.
PR 17-NOV-1998; 98US-0108806.
PR 17-NOV-1998; 98US-0108867.
PR 17-NOV-1998; 98US-0108925.
PR 18-NOV-1998; 98US-0108848.

```





XX WPI: 2001-408281/43.  
 DR P-PSDB; AAU12424.  
 XX  
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect  
 PT other PRO polypeptides, link bioactive molecules to cells expressing  
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.  
 XX lung, breast, prostate, cervical  
 XX  
 XX Claim 3; Fig 505; 813pp; English.  
 XX  
 PS AAS21244-AAS21518 encode for novel human secretory and transmembrane  
 CC PRO polypeptides. The PRO polypeptides are useful to detect other  
 CC PRO polypeptides, to link bioactive molecules to cells expressing  
 CC PRO polypeptides, to modulate biological activities of cells expressing  
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,  
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO  
 CC polypeptide expression in a cell sample to that in a control sample.  
 CC Some of the 275 sequences are also useful to stimulate the release of  
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the  
 CC proliferation or differentiation of chondrocytes, the proliferation or  
 CC gene expression in pericyte cells, the release of proteoglycans from  
 CC cartilage, the proliferation of inner ear utricular supporting cells or  
 CC of T-lymphocytes, the release of a cytokine from peripheral blood  
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of  
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by  
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide  
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify  
 CC molecules involved in binding interactions. The polynucleotides encoding  
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,  
 CC transgenic or knock out animals and can be used in gene therapy.  
 XX  
 XX Sequence 1204 BP; 306 A; 364 C; 294 G; 240 T; 0 other;  
 SQ

Alignment Scores:  
 Pred. No.: 5,046-105 Length: 1204  
 Score: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 22 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x AAS21496 (1-1204)

QY 1 IleIleLYsGLyPheGLuCYsGLyAlaThrPheHisGlnPheGlnAlaLeuPheGlu 20  
 DB 169 ATCATCAGGGGTTTCAGTGCAAGCTTCACTCCAGCCTTGGCAGCGACCTCTTCGAG 228  
 QY 21 LyeThrArgLeuLeuCYsGLyAlaThrLeuIleAlaProArgTrpLeuThrAlaAla 40  
 DB 229 AAGACGGCTACTCTGTGGGGCGACGCTCATCGCCCCCAGATGGCTCTCCAGCAGCC 288  
 QY 41 HisCYsLeuLYsProArgTrpIleValHisLeuGLyGlnHisAsnLeuGlnLYsGlu 60  
 DB 289 CACTGCTCAAGCCCGCTACATAGTTCACTCCAGCCTTGGCAGCGACCACTCCAGAGGAG 348  
 QY 61 GLYCYsGLuGlnThrArgThrAlaThrGluSerPheProHisProGLyPheAsnAsnSer 80  
 DB 349 GCGTGTGACGACACCGGACAGCCACTGAGTCTTCCCCACCCCGGTTCCACACAGC 408  
 QY 81 LeuProAsnLYsAspHisArgAsnAspIleMetLeuValLYsMetAlaSerProValSer 100  
 DB 409 CTCCTCAAGAGACACCGCAATGACATCATCTGCTGGTGAAGATGGCATCGCCAGTCTCC 468  
 QY 101 IleThrAlaValArgProLeuThrLeuSerSerArgCYsValThrAlaGLyThrSer 120  
 DB 469 ATCACTGGGCTGTGCGACCCCTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 528  
 QY 121 CYsLeuIleSerGLYTrpLYsThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 DB 529 TGCTCTATTCGGCTTGGGGCAGACGCTCCAGCCCCCAGTACGCTCGCTCCCTCACCTTG 568  
 QY 141 ArgCYsAlaAsnIleThrIleIleGlnHisGlnLYsCYsGluAsnAlaTrpProGLyAsn 160

DB 589 CGATGCGCCAAACATCACCATCATTGAGCACCAAGGTGTGAGAACCCCTACCCGCGAAC 648  
 QY 161 IleThrAspThrMetValCYsAlaSerValGlnGluGLyGLyLYsAspSerCYsGlnGly 180  
 DB 649 ATCAGACACACCATGCTGTGTGCCAGCGTGCAGGAGGGGCAAGGACTCTCTGCCAGGT 708  
 QY 181 AspSerGLYCYsGLyProLeuValCYsAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln 200  
 DB 709 GACTCCGGGGGCGCTCTGCTGTGTGTCAGGCTCTCTTCAGGCGATTATCTCTGGGGCCAG 768  
 QY 201 AspProCYsAlaIleThrArgLYsProGLYValTrpThrLYsValCYsLYsTrpValAsp 220  
 DB 769 GATCCGCTGTCGATCCACCGCAAGCTGTGTCTTACACGAAAGCTCTGCAAAATATGTGGAC 828  
 QY 221 TrpIleGlnGluThrMetLYsAsnAsn 229  
 DB 829 TGGATCCAGGAGACGATGAAGAACAA 855

RESULT 8  
 AAF54320  
 ID AAF54320 standard; DNA; 1204 BP.  
 XX  
 XX AAF54320;  
 XX  
 DT 02-APR-2001 (first entry)  
 XX  
 DE DNA encoding protein of the invention #51.  
 XX  
 KW Secreted; transmembrane; gene therapy; ss.  
 XX  
 OS Unidentified.  
 XX  
 XX WO200078961-A1.  
 XX  
 XX 28-DEC-2000.  
 XX  
 XX 18-FEB-2000; 2000WO-US04342.  
 XX  
 XX 23-JUN-1999; 99US-0141037.  
 XX 20-JUL-1999; 99US-0144758.  
 XX 26-JUL-1999; 99US-0145698.  
 XX 01-SEP-1999; 99WO-US20111.  
 XX 29-OCT-1999; 99US-0162506.  
 XX 30-NOV-1999; 99WO-US28313.  
 XX 02-DEC-1999; 99WO-US28551.  
 XX 16-DEC-1999; 99WO-US10095.  
 XX 05-JAN-2000; 2000WO-US00219.  
 XX 06-JAN-2000; 2000WO-US00376.  
 XX  
 XX (GETH) GENENTECH INC.  
 XX  
 XX Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S;  
 PI Cao W, Goddard A, Godowski PU, Grimaldi CJ, Gurney AL, Hillan KJ;  
 PI Pan J, Pacini NF, Roy NA, Smith V, Stewart TA, Tumas D;  
 PI Watanabe CK, Williams PW, Wood WI;  
 XX  
 XX WPI: 2001-071395/08.  
 XX  
 XX Secreted and transmembrane proteins and nucleic acids designated PRO,  
 PT useful as hybridization probes, in chromosome and gene mapping and gene  
 PT therapy -  
 XX  
 XX Claim 2; Fig 101; 787pp; English.  
 XX  
 XX The present invention relates to secreted and transmembrane proteins.  
 CC These proteins and the DNA encoding them may be used as hybridization  
 CC probes, in chromosome and gene mapping and in the generation of  
 CC anti-sense RNA and DNA. They may also be used to generate either  
 CC transgenic animals or knockout animals which are in turn useful for  
 CC development and screening of therapeutically useful reagents.  
 CC The nucleic acids may also be used in gene therapy.  
 CC

Sequence 1204 BP; 306 A; 364 C; 294 G; 240 T; 0 other;

Alignment Scores: 5.04e-105 Length: 1204  
 Pred. No.: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 22 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x AAF54320 (1-1204)

Qy 1 IleIleGlyGlyPheGluCysArgProHisSerGlnProTigLlnAlaLeuPheGlu 20  
 Db 169 ATCATCAAGGGTTCGAGTGAAGCCCTCACTCCAGCCCTGCGAGGAGCCCTTTTCGAG 228  
 Qy 21 LysThrArgLeuLeuGlyValAlaThrIleuIleAlaProArgTyrLeuLeuThrAlaAla 40  
 Db 229 AAGACGGCGTACTCTGTGGGGGACGCTCATCGCCCGGAGATGCTCTCCACAGCAGCC 288  
 Qy 41 HisCysLeuLeuProArgTyrIleValHisLeuGlyGlnHisLeuGlyLeuGlu 60  
 Db 289 CATGCTCTAAGCCCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 348  
 Qy 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnSer 80  
 Db 349 GGCTGTGAGCAGACCGGAGCAGCAGCTGAGTCTCTCCCGCCGCGGCTTCAACAGCAGC 408  
 Qy 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
 Db 409 CTCCCAACAAAGACCCCGCAATGACATCATCTGCTGAGATGATGATGATGATGATGATGAT 468  
 Qy 101 IleThrTyrAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
 Db 469 ATCACTGGGCTGTGGGACCCCTCACTCTCTCACTGCTGTGCTGCTGCTGCTGCTGCTGCT 528  
 Qy 121 CysLeuIleSerGlyTyrGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 Db 529 TGCTCATTTCCGGTGTGGGAGCAGCAGCTCCAGCCCGGCTTACGCTGCTGCTGCTGCTGCTG 588  
 Qy 141 ArgCysAlaAsnIleThrIleIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn 160  
 Db 589 CGATGGCCCAACATCACCATTGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 648  
 Qy 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyLysAspSerCysGlnGly 180  
 Db 649 ATCAGACAGCACCATTGCTGTGCCAGCTGCGAGGAGGGGGGAGGAGCTCTGCGAGGCT 708  
 Qy 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTyrGlyGln 200  
 Db 709 GACTCCGGGGGCGCTCTGCTGTGAACAGCTCTTCAAGGCAATATCTCTGCGGGCCAG 768  
 Qy 201 AspProCysAlaIleThrArgLysProGlyValThrLysValCysLysTyrValAsp 220  
 Db 769 GATCCGTGTGCGATCACCCGAAAGCTGTGTCTACACGAAAGCTGTCAAAATATGTGAC 828  
 Qy 221 TrpIleGlnGluThrMetLysAsnAsn 229  
 Db 829 TGGATCCAGGACCATGATGAGACAT 855

RESULT 9

ABL95664  
 ID ABL95664 standard; cDNA; 1204 BP.  
 XX AC ABL95664;  
 XX DT 19-JUL-2002 (first entry)  
 XX DE Human angiogenesis related cDNA PRO1279 SEQ ID NO: 207.  
 XX KW Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;  
 XX KW atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;  
 KW cardiant; cyostatic; antiangiogenic; hypotensive; vulnerary;

KW antiarteriosclerotic; gene; ss.  
 XX Homo sapiens.  
 XX WO200208284-A2.  
 XX 31-JAN-2002.  
 XX 09-JUL-2001; 2001WO-US21735.  
 XX 20-JUL-2000; 2000US-219556P.  
 XX 25-JUL-2000; 2000US-22064P.  
 XX 28-JUL-2000; 2000WO-US20710.  
 XX 02-AUG-2000; 2000US-22269P.  
 XX 17-AUG-2000; 2000US-0643657.  
 XX 23-AUG-2000; 2000WO-US23322.  
 XX 24-AUG-2000; 2000WO-US23328.  
 XX 07-SEP-2000; 2000US-230978P.  
 XX 15-SEP-2000; 2000US-00000P.  
 XX 18-SEP-2000; 2000US-0654610.  
 XX 19-SEP-2000; 2000US-0853350.  
 XX 24-OCT-2000; 2000US-24922P.  
 XX 08-NOV-2000; 2000US-0709238.  
 XX 08-NOV-2000; 2000WO-US30952.  
 XX 10-NOV-2000; 2000WO-US30873.  
 XX 01-DEC-2000; 2000WO-US32678.  
 XX 20-DEC-2000; 2000US-0747259.  
 XX 20-DEC-2000; 2000WO-US34956.  
 XX 22-JAN-2001; 2001US-075609.  
 XX 28-FEB-2001; 2001US-0796498.  
 XX 28-FEB-2001; 2001WO-US06520.  
 XX 01-MAR-2001; 2001WO-US06666.  
 XX 09-MAR-2001; 2001US-0802706.  
 XX 14-MAR-2001; 2001US-0808689.  
 XX 22-MAR-2001; 2001US-0816744.  
 XX 05-APR-2001; 2001US-0828366.  
 XX 10-MAY-2001; 2001US-0854208.  
 XX 10-MAY-2001; 2001US-0854280.  
 XX 25-MAY-2001; 2001US-0866028.  
 XX 25-MAY-2001; 2001US-0866034.  
 XX 25-MAY-2001; 2001WO-US17092.  
 XX 30-MAY-2001; 2001US-0870574.  
 XX 30-MAY-2001; 2001WO-US17443.  
 XX 01-JUN-2001; 2001WO-US17800.  
 XX 20-JUN-2001; 2001WO-US19592.  
 XX 28-JUN-2001; 2001WO-US00000.  
 XX (GETH ) GENENTECH INC.  
 PA (BAKE/) BAKER K P.  
 PA (FERR/) FERRARA N.  
 PA (GERB/) GERBER H.  
 PA (GERR/) GERRITSEN M E.  
 PA (GODD/) GODDARD A.  
 PA (GODO/) GODOWSKI P J.  
 PA (GURN/) GURNEY A L.  
 PA (HILL/) HILLAN K J.  
 PA (MARS/) MARSTERS S A.  
 PA (PANI/) PAN J.  
 PA (PAONI/) PAONI N P.  
 PA (STEP/) STEPHAN J P.  
 PA (WATN/) WATANABE C K.  
 PA (WILL/) WILLIAMS P M.  
 PA (WOOD/) WOOD W I.  
 PI Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A,  
 PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NP,  
 PI Stephan JP, Watanabe CK, Williams PM, Wood WI, Ye W;  
 WPI: 2002-171999/22.  
 DR P-PSDB; ABB95526.  
 XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,

WPI; 2002-090516/12.  
P-PsDB: ABB84920.

PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
 PT infarction), endothelial or angiogenic disorders in a mammal -  
 XX  
 PS Claim 2; Fig 207; 565pp; English.

CC AB188072 to AB188258 encode the PRO proteins given in AB1884817 to  
 CC AB188503. The PRO proteins and polynucleotides have cardiant, cytostatic,  
 CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic  
 CC activities, and can be used in gene therapy. The PRO polynucleotides,  
 CC proteins, agonists and antagonists are useful for treating or diagnosing  
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal,  
 CC e.g. cardiac hypertrophy, trauma, cancer, age-related macular  
 CC degeneration, atherosclerosis, hypertension, arterial restenosis,  
 CC rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis,  
 CC lymphangitis, tumour angiogenesis (such as breast carcinoma and liver  
 CC carcinoma) and wound healing. The PRO polynucleotides have applications  
 CC in molecular biology, including use as hybridisation probes, and in  
 CC chromosome and gene mapping. AB188259 to AB188267 represent primers and  
 CC probes used in the exemplification of the present invention.

XX Sequence 1204 BP; 306 A; 364 C; 294 G; 240 T; 0 other;

Alignment Scores:  
 Pred. No.: 5,04e-105 Length: 1204  
 Score: 1258.00 Matches: 229  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 24 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x ABL80175 (1-1204)

Qy 1 IleIleGlyGlyPheGluCysGlyProHisSerGlnProTrpGlnAlaLeuPheGlu 20  
 Db 169 ATCATCAAGGGGTTCCAGTTCGAAGCCTCACTCCAGCCCTGGCAGGCGCTGTCGAG 228  
 Qy 21 LysThrArgLeuLeuGlyGlyAlaThrLeuIleAlaProArgTrpLeuLeuThrAlaAla 40  
 Db 229 AACACGGCGCTACTCTGTGGGGCGACCTCATCGCCCCAGATGCTCTGACAGCAGCC 288  
 Qy 41 HisCysLeuLeuProArgTyrIleValHisGlyGlyGlnHisLeuGlnGlyGlu 60  
 Db 289 CACTGCTCAAGCCCGCTCATAGTTCACCTGGGCGACGACCAACCTCCAGAGGAGGAG 348  
 Qy 61 GlyCysGluInThrArgThrAlaThrGluSerPheProHisProGlyPheAsnSer 80  
 Db 349 GGCTGTGAGCAGACCCGACAGCCACTGAGTCTTCCCCACCCCGGCTTCAACACAGC 408  
 Qy 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
 Db 409 CTCCCAACAAAGACCCGCAATGACATCATCTGTTGAGATGGCATGCCAGTCTCC 468  
 Qy 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
 Db 469 ATCACTGGCTGTGCGACCCCTCACCCTCTCTCAGCTGTCTCACTGTGGCAGCAGC 528  
 Qy 121 CysLeuIleSerGlyTrpGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
 Db 529 TGCCCTATTCCGGTGGGGCGAGCAGCTCCAGCCCGCCAGTACGCTGCCTCAACCTTG 588  
 Qy 141 ArgCysAlaAsnIleThrIleIleGlnHisGlnLysCysGluAsnAlaTrpProGlyVal 160  
 Db 589 CGATGGCGCAACATCACCATTATGAGCACCAGAGTGTGAGACGCTTACCCCGGCAC 648  
 Qy 161 IleThrAspThrMetValCysAlaSerValGlnGlyGlyIleValAsnSerCysGlnGly 180  
 Db 649 ATCAGAGACCATGTGTGTGTCAGCGCTGCAGAGGGGCGAGGACTCTCTCCAGGGT 708  
 Qy 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln 200  
 Db 709 GACTCCGGGGGCGCTCTGTGTCGTGAACCACTGCTCTTCAAGGCATATATCTCTGGGCGCAG 768

Qy 201 AspProCysAlaIleThrArgLysProGlyValThrLysValCysLysValAsp 220  
 Db 769 GATCGGTGTGGATCACCCGAAAGCCTGTGTCTACACGAAAGCTGCAAAATATGTGAC 828  
 Qy 221 TrpIleGlnGluThrMetLysAsnAsn 229  
 Db 829 TGGATCCAGGAGACGATGAAGAACAAT 855

# RESULT 11

ABK33628  
 ID ABK33628 standard; cDNA; 1204 BP.

XX ABK33628;

XX 08-MAY-2002 (first entry)

XX cDNA encoding human PRO protein, Seq ID No 185.

XX Human; secreted protein; PRO; tumour; lung cancer; colon cancer;  
 XX breast cancer; prostate tumour; rectal tumour; liver tumour;  
 XX pericyte cell proliferation; chondrocyte cell proliferation;  
 XX tumour necrosis factor-alpha; gene; ss.

XX Homo sapiens.

XX NC200208288-A2.

XX 31-JAN-2002.

XX 29-JUN-2001; 2001WO-US21066.

XX 20-JUL-2000; 2000US-219556P.

XX 25-JUL-2000; 2000US-220585P.

XX 25-JUL-2000; 2000US-220605P.

XX 25-JUL-2000; 2000US-220607P.

XX 25-JUL-2000; 2000US-220624P.

XX 25-JUL-2000; 2000US-220638P.

XX 25-JUL-2000; 2000US-220644P.

XX 28-JUL-2000; 2000US-220893P.

XX 28-JUL-2000; 2000WO-US20710.

XX 23-AUG-2000; 2000WO-US23522.

XX 24-AUG-2000; 2000WO-US23328.

XX 15-SEP-2000; 2000US-000000P.

XX 10-NOV-2000; 2000WO-US310873.

XX 28-NOV-2000; 2000US-253646P.

XX 01-DEC-2000; 2000WO-US32678.

XX 20-DEC-2000; 2000US-074759.

XX 26-DEC-2000; 2000WO-US34566.

XX 10-FEB-2001; 2001WO-US06520.

XX 10-MAY-2001; 2001US-0854280.

XX 23-MAY-2001; 2001WO-US17092.

XX (GETH) GENENTECH INC.

XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;

XX Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;

XX WPI; 2002-172001/22.

XX P-PSDB; AAU83684.

XX One hundred and twenty two nucleic acids encoding PRO polypeptides,  
 XX useful for treating a PRO related disorder and for diagnosing tumours  
 XX such as lung cancer, colon cancer, breast tumour, prostate tumour, rectal  
 XX tumour or liver tumour -

XX Claim 2; Figure 185; 359pp; English.

XX The invention relates to one hundred and twenty two nucleic acids  
 XX encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides  
 XX encode human secreted proteins. The PRO nucleic acids, polypeptides,  
 XX agonists and antagonists are useful for treating a PRO related disorder.  
 XX The PRO polypeptides are useful for diagnosing tumours, especially lung

CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or  
 CC liver tumour. The PRO polypeptides are useful for stimulating the  
 CC proliferation of, or gene expression, in pericyte cells, for stimulating  
 CC the proliferation or differentiation of chondrocyte cells, for  
 CC stimulating the release of tumour necrosis factor-alpha from human blood,  
 CC for stimulating or inhibiting the proliferation of normal human dermal  
 CC fibroblast cells. The PRO polypeptide may also be used as molecular  
 CC weight markers and for tissue typing. The PRO nucleic acids have  
 CC applications in molecular biology, including use as hybridisation probes,  
 CC and in chromosome and gene mapping. ABK3336-ABK33657 represent human  
 CC PRO protein coding sequences of the invention.  
 XX  
 SQ Sequence 1204 BP; 306 A; 364 C; 294 G; 240 T; 0 other;

## Alignment Scores:

Pred. No.:	5,04e-105	Length:	1204
Score:	1258.00	Matches:	229
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	2%	Gaps:	0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x ABK33628 (1-1204)

Qy	1	IleIleLysGlyPheGluCysLysProHisSerGlnProTyrGlnAlaAlaLeuPheGlu	20
Db	169	ATCATCAAGGGGTTTGGAGTCAAGCTCTCACTCCAGCCCTGGCAGGAGCCCTGTTCCAG	228
Qy	21	LysThrArgLeuLeuCysGlyValaThrLeuIleAlaProArgTyrPheLeuThrAlaAla	40
Db	229	AAGACGGGCTACTCTGTGGGGCGAGCTCATCGCCCGCCAGATGCTCTTGACAGCAGCC	288
Qy	41	HisCysLeuLysProArgTyrIleValHisLeuGlyGlnHisAsnLeuGlyGlu	60
Db	289	CAGTCTCTCAAGCCCGCTCATAGTTTCACTCGGGCAGCACTCCAGAGGGAGG	348
Qy	61	GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAsnSer	80
Db	349	GGCTGTGAGCAGCCGAGCAGCAGCTGAGTCTTCTCCCGCCGGCTTCAACACAGC	408
Qy	81	LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer	100
Db	409	CTCCCCAACAAAGACCCCGCAATGACATCATCTGTGAGATGGCATGCCAGTCTCC	468
Qy	101	IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer	120
Db	469	ATCAGCTGGGCTGTGGACCCCTCACCTCTCTCAGCTGTGTACCTGTGGCAGCAGC	528
Qy	121	CysLeuIleSerGlyTyrPylSerThrSerSerProGlnLeuArgLeuProHisThrLeu	140
Db	529	TGCCTCATTTCCGGTGGGGCAGCAGCTCCAGCCCGCCAGTTAGCGCTGCTCCACCTTG	588
Qy	141	ArgCysAlaAsnIleThrIleIleGluHisGlnLysCysGluAsnAlaTyrProGlyAsn	160
Db	589	CGATGGCCCAACATCACCATCATTTGAGCAGCAGCAAGTGTGAGAACGCTTACCCCGCAAC	648
Qy	161	IleThrAspThrMetValCysAlaSerValGlnGluGlyGlyLysAspSerCysGlnGly	180
Db	649	ATCAGACACCATGGTGTGTGGCAGCTGCAGAGAGGGGGCAGGACTCTCTGCCAGGCT	708
Qy	181	AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln	200
Db	709	GACTCGGGGGCCCTCTGGTGTGTAAACAGTCTCTTCAAGGCATTATCTCTGGGGCCAG	768
Qy	201	AspProCysAlaIleThrArgLysProGlyValThrLysValCysLysTyrValAsp	220
Db	769	GATCCGTGTGGCATCACCCGAAAGCCCTGGTGTCTACAGAAAGTCTGCAATATGTGGAC	828
Qy	221	TrpIleGlnGluThrMetLysAsnAsn	229
Db	829	TGGATCCAGGACGACCATGAAGAACAT	855

RESULT 12..

ACA03855  
 ID ACA03855 standard; cDNA; 1204 BP.  
 XX  
 AC ACA03855;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX  
 XX cDNA encoding human PRO polypeptide #253.  
 DE Human; PRO polypeptide; secreted and transmembrane protein;  
 XX tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;  
 KW differentiation; chondrocyte; tumour; genetic disorder;  
 KW cytotstatic; gene; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2003036180-A1.  
 XX  
 PD 20-FEB-2003.  
 XX  
 PF 09-MAY-2002; 2002US-0143114.  
 XX  
 PR 31-MAR-1987; 97MO-US05230.  
 PR 12-JUN-1988; 98MO-US12456.  
 PR 14-JUL-1988; 98MO-US14552.  
 PR 28-AUG-1988; 98MO-US17888.  
 PR 10-SEP-1988; 98MO-US18824.  
 PR 14-SEP-1988; 98MO-US19093.  
 PR 14-SEP-1988; 98MO-US19094.  
 PR 14-SEP-1988; 98MO-US19177.  
 PR 16-SEP-1988; 98MO-US19330.  
 PR 17-SEP-1988; 98MO-US19437.  
 PR 07-OCT-1988; 98MO-US21141.  
 PR 29-OCT-1988; 98MO-US22591.  
 PR 29-OCT-1988; 98MO-US22592.  
 PR 20-NOV-1988; 98MO-US24855.  
 PR 01-DEC-1988; 98MO-US25108.  
 PR 05-JAN-1989; 99MO-US00106.  
 PR 08-MAR-1989; 99MO-US05028.  
 PR 10-MAR-1989; 99MO-US05190.  
 PR 20-APR-1989; 99MO-US08615.  
 PR 14-MAY-1989; 99MO-US10733.  
 PR 02-JUN-1989; 99MO-US12252.  
 PR 01-SEP-1989; 99MO-US20111.  
 PR 08-SEP-1989; 99MO-US20594.  
 PR 13-SEP-1989; 99MO-US20844.  
 PR 15-SEP-1989; 99MO-US21090.  
 PR 15-SEP-1989; 99MO-US21547.  
 PR 05-OCT-1989; 99MO-US23089.  
 PR 29-NOV-1989; 99MO-US28214.  
 PR 30-NOV-1989; 99MO-US28313.  
 PR 30-NOV-1989; 99MO-US28409.  
 PR 01-DEC-1989; 99MO-US28301.  
 PR 02-DEC-1989; 99MO-US28534.  
 PR 02-DEC-1989; 99MO-US28551.  
 PR 02-DEC-1989; 99MO-US28564.  
 PR 16-DEC-1989; 99MO-US28565.  
 PR 20-DEC-1989; 99MO-US30095.  
 PR 20-DEC-1989; 99MO-US30911.  
 PR 20-DEC-1989; 99MO-US30999.  
 PR 22-DEC-1989; 99MO-US30720.  
 PR 30-DEC-1989; 99MO-US31243.  
 PR 30-DEC-1989; 99MO-US31274.  
 PR 05-JAN-2000; 2000MO-US00219.  
 PR 06-JAN-2000; 2000MO-US00277.  
 PR 06-JAN-2000; 2000MO-US00376.  
 PR 11-FEB-2000; 2000MO-US03565.  
 PR 18-FEB-2000; 2000MO-US04341.  
 PR 18-FEB-2000; 2000MO-US04342.  
 PR 22-FEB-2000; 2000MO-US04414.  
 PR 24-FEB-2000; 2000MO-US04914.  
 PR 24-FEB-2000; 2000MO-US05004.  
 PR 01-MAR-2000; 2000MO-US05601.

PR 02-MAR-2000; 2000WO-US05746.  
PR 02-MAR-2000; 2000WO-US05841.  
PR 10-MAR-2000; 2000WO-US06319.  
PR 15-MAR-2000; 2000WO-US06684.  
PR 20-MAR-2000; 2000WO-US07377.  
PR 21-MAR-2000; 2000WO-US07532.  
PR 30-MAR-2000; 2000WO-US08439.  
PR 17-MAY-2000; 2000WO-US13705.  
PR 22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15264.  
PR 28-JUN-2000; 2000WO-US20710.  
PR 11-AUG-2000; 2000WO-US22031.  
PR 23-AUG-2000; 2000WO-US23522.  
PR 24-AUG-2000; 2000WO-US23328.  
PR 08-NOV-2000; 2000WO-US30952.  
PR 10-NOV-2000; 2000WO-US30973.  
PR 01-DEC-2000; 2000WO-US33678.  
PR 20-DEC-2000; 2000WO-US34956.  
PR 28-FEB-2001; 2001WO-US06520.  
PR 01-MAR-2001; 2001WO-US06666.  
PR 25-MAY-2001; 2001WO-US17092.  
PR 01-JUN-2001; 2001WO-US17800.  
PR 20-JUN-2001; 2001WO-US19692.  
PR 22-JUN-2001; 2001WO-US20116.  
PR 29-JUN-2001; 2001WO-US21066.  
PR 09-JUL-2001; 2001WO-US21735.  
PR 20-DEC-2000; 2000US-0747259.  
PR 28-FEB-2001; 2001US-0796498.  
PR 09-MAR-2001; 2001US-0803706.  
PR 14-MAR-2001; 2001US-0808689.  
PR 22-MAR-2001; 2001US-0816744.  
PR 05-APR-2001; 2001US-0828366.  
PR 10-MAY-2001; 2001US-0854208.  
PR 18-MAY-2001; 2001US-0860216.  
PR 10-MAY-2001; 2001US-0864280.  
PR 25-MAY-2001; 2001US-0866028.  
PR 25-MAY-2001; 2001US-0865034.  
PR 01-JUN-2001; 2001US-0876035.  
PR 05-JUN-2001; 2001US-0874503.  
PR 14-JUN-2001; 2001US-0882636.  
PR 19-JUN-2001; 2001US-0886342.  
PR 21-JUN-2001; 2001US-0887879.  
PR 18-JUL-2001; 2001US-0908827.  
PR 06-AUG-2001; 2001US-0924419.  
PR 09-AUG-2001; 2001US-0927795.  
PR 16-AUG-2001; 2001US-0931836.  
PR 19-DEC-2001; 2001US-0028072.  
XX  
PA (GETH ) GENENTECH INC.  
XX  
PI Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;  
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WJ, Zhang Z;  
XX  
DR WPI, 2003-332040/31.  
DR P-PSDB, ABUS6822.  
XX  
PT New secreted and transmembrane PRO nucleic acids, useful for gene  
PT therapy, in chromosome and gene mapping, as chromosome markers, in  
PT tissue typing, and in chromosome identification  
XX  
PS Claim 2; Fig 505; 660pp; English.

CC the proliferation or differentiation of chondrocytes, and detecting the  
CC presence of tumours. The polynucleotide sequences encoding PRO  
CC polypeptides are useful as hybridisation probes, in chromosome and  
CC gene mapping, in the generation of antisense RNA and DNA, in the  
CC preparation of PRO polypeptides, for generating transgenic animals or  
CC knockout animals, for the genetic analysis of individuals with genetic  
CC disorders, and in gene therapy. ACA03603-ACA03877 represent cDNAs  
CC encoding the human PRO polypeptides of the invention.  
CC Note: The sequence data for this patent was obtained in electronic  
CC format directly from the USPTO web site at  
CC seqdata.uspto.gov/psipdsIDEntry.html.  
XX

SQ Sequence 1204 BP; 306 A; 364 C; 294 G; 240 T; 0 other;

Alignment Scores:  
Pred. No.: 5,04e-105 Length: 1204  
Score: 1258.00 Matches: 229  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 25 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x ACA03855 (1-1204)

Qy 1 ILEILEYSGLYPHEGLUCYVLYSPROHISSEGLNPRTPGGLNLAALALEUPHEGLU 20  
Db 169 ATCATCAAGGGGTTTCAGTGCAGAGCTTACTCCAGCCCTGGCAGGCGCCCTTTCGAG 228  
Qy 21 LYSThrArgLeuLeuCysGlyAlaThrLeuLeuAlaProArgTrpLeuLeuThrAlaAla 40  
Db 229 AAGACGGCGCTACTCTGTGGGGCGAGCGCTATCGCCCCCAGATGGCTCTCGACGAGGCC 388  
Qy 41 HISCysLeuLysProArgTyrlleValHisLeuGlyGlnHisAsnLeuGlnLysGlu 60  
Db 289 CACTGCTCAAGCCCGCTACATAGTTTCACTGGGGCAGCACAACCTCCAGAGAGGAGG 348  
Qy 61 GLYCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnAsnSer 80  
Db 349 GGCTGTGAGCAGACCCGGCAGCCACTGAGTCTTCCCCACCCCGCTTCAACACAGC 408  
Qy 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
Db 409 CTCCCCAACAAAGACCCACCGCATGACATCATGTGTGTAAGATGGCATCGCCAGTCTCC 468  
Qy 101 ILEThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
Db 469 ATCACTGGGCTGTGGACCCCTCACTCCCTCCTCAGCGTGTGTCTGCTGACACACAGC 528  
Qy 121 CysLeuIleSerGlyTrpGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
Db 529 TCCCTCATTTCCGGCTGGGCGCAGCAGCTCCAGCCCGCCAGTTTACCCCTGCTCACACTTG 588  
Qy 141 ArgCysAlaAsnIleThrleileGluHisGlnLysCysGluAsnAlaTyrrProGlyAsn 160  
Db 589 CGATCGGCCAACATCACTCATTTGAGCAGCAGAGAGTGTGAGAAACGCTTACCCCGCAAC 648  
Qy 161 ILEThrAspThrMetValCysAlaSerValGlnGluGlyGlyLysAspSerCysGlnGly 180  
Db 649 ATCACAGACACCATGGTGTGTGCGCGGTGCAGGAAGGGGCAAGGAGCTCTCTCCAGGGT 708  
Qy 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln 200  
Db 709 GACTCCGGGGGCGCTCTGTGTCTGTAAACAGTCTCTTCAAGGCATTATCTCTCTGGGCCAG 768  
Qy 201 AppProCysAlaIleThrArgLysProGlyValTyrrThrLysValCysLysTyrrValasp 220  
Db 769 GATCGTGTGGATTCACCCGAAAGGCTGTGTCTACACGAAAGTCTGCAATATGTGGAC 828  
Qy 221 TrpIleGlnGluThrMetLysAsnAsn 229  
Db 829 TGGATCCAGGAGCAGTGAAGAACAAAT 855

RESULT 13

CC The present invention relates to the isolation of novel human PRO  
CC polypeptides, and the polynucleotide sequences encoding them. The  
CC PRO polypeptides are secreted and transmembrane proteins. The PRO  
CC polypeptides are useful for detecting other PRO polypeptides, for  
CC linking bioactive molecules to cells expressing PRO polypeptides,  
CC for modulating biological activities of cells expressing PRO  
CC polypeptides, and for identifying agonists or antagonists.  
CC The PRO polypeptides are useful for stimulating the release of  
CC tumour necrosis factor (TNF)-alpha from human blood, for stimulating

ACA04276  
ID ACA04276 standard; cDNA; 1204 BP.  
XX AC ACA04276;  
XX DT 27-MAY-2003 (first entry)  
XX DE Human cDNA encoding a secreted/transmembrane protein, SEQ ID 505.  
XX KW Human; ss; gene; secreted protein; transmembrane protein; PRO;  
XX inflammatory disease; organ failure; atherosclerosis; cardiac injury;  
XX infertility; birth defects; premature aging; AIDS; biosensor;  
XX acquired immunodeficiency syndrome; cancer; diabetic complication;  
XX bioreactor; tumour.  
XX OS Homo sapiens.  
XX PN US2003032155-A1.  
XX PD 13-FEB-2003.  
XX PF 03-MAY-2002; 2002US-0137865.  
XX PR 31-MAR-1997; 97NO-US05230.  
PR 12-JUN-1998; 98NO-US12456.  
PR 14-JUL-1998; 98NO-US14552.  
PR 28-AUG-1998; 98NO-US17888.  
PR 10-SEP-1998; 98NO-US18824.  
PR 14-SEP-1998; 98NO-US19094.  
PR 14-SEP-1998; 98NO-US19094.  
PR 14-SEP-1998; 98NO-US19177.  
PR 16-SEP-1998; 98NO-US19130.  
PR 17-SEP-1998; 98NO-US19137.  
PR 07-OCT-1998; 98NO-US21141.  
PR 29-OCT-1998; 98NO-US22991.  
PR 29-OCT-1998; 98NO-US23892.  
PR 20-NOV-1998; 98NO-US24855.  
PR 01-DEC-1998; 98NO-US25108.  
PR 05-JAN-1999; 99NO-US00106.  
PR 08-MAR-1999; 99NO-US05028.  
PR 10-MAR-1999; 99NO-US05190.  
PR 20-APR-1999; 99NO-US08615.  
PR 14-MAY-1999; 99NO-US10733.  
PR 02-JUN-1999; 99NO-US12352.  
PR 01-SEP-1999; 99NO-US20111.  
PR 08-SEP-1999; 99NO-US20594.  
PR 13-SEP-1999; 99NO-US20944.  
PR 15-SEP-1999; 99NO-US21090.  
PR 15-SEP-1999; 99NO-US21547.  
PR 05-OCT-1999; 99NO-US23089.  
PR 29-NOV-1999; 99NO-US26214.  
PR 30-NOV-1999; 99NO-US28313.  
PR 30-NOV-1999; 99NO-US28409.  
PR 01-DEC-1999; 99NO-US28301.  
PR 01-DEC-1999; 99NO-US28634.  
PR 02-DEC-1999; 99NO-US28551.  
PR 02-DEC-1999; 99NO-US28564.  
PR 02-DEC-1999; 99NO-US28565.  
PR 16-DEC-1999; 99NO-US30095.  
PR 20-DEC-1999; 99NO-US30311.  
PR 20-DEC-1999; 99NO-US30399.  
PR 22-DEC-1999; 99NO-US30720.  
PR 30-DEC-1999; 99NO-US31243.  
PR 30-DEC-1999; 99NO-US31274.  
PR 05-JAN-2000; 2000MO-US000219.  
PR 06-JAN-2000; 2000MO-US000277.  
PR 06-JAN-2000; 2000MO-US00376.  
PR 11-FEB-2000; 2000MO-US003565.  
PR 18-FEB-2000; 2000MO-US04341.  
PR 18-FEB-2000; 2000MO-US04342.  
PR 22-FEB-2000; 2000MO-US04414.  
PR 24-FEB-2000; 2000MO-US04914.  
PR 24-FEB-2000; 2000MO-US05004.  
PR 01-MAR-2000; 2000MO-US05601.  
PR 02-MAR-2000; 2000MO-US05746.  
PR 02-MAR-2000; 2000MO-US05841.  
PR 10-MAR-2000; 2000MO-US06319.  
PR 15-MAR-2000; 2000MO-US06884.  
PR 20-MAR-2000; 2000MO-US07377.  
PR 21-MAR-2000; 2000MO-US07532.  
PR 30-MAR-2000; 2000MO-US08439.  
PR 17-MAY-2000; 2000MO-US13705.  
PR 22-MAY-2000; 2000MO-US14042.  
PR 30-MAY-2000; 2000MO-US14941.  
PR 02-JUN-2000; 2000MO-US15264.  
PR 28-JUL-2000; 2000MO-US20710.  
PR 11-AUG-2000; 2000MO-US22031.  
PR 23-AUG-2000; 2000MO-US23522.  
PR 24-AUG-2000; 2000MO-US23328.  
PR 08-NOV-2000; 2000MO-US30952.  
PR 10-NOV-2000; 2000MO-US30873.  
PR 01-DEC-2000; 2000MO-US32678.  
PR 20-DEC-2000; 2000MO-US34956.  
PR 28-FEB-2001; 2001MO-US06520.  
PR 01-MAR-2001; 2001MO-US06666.  
PR 25-MAY-2001; 2001MO-US17092.  
PR 01-JUN-2001; 2001MO-US17800.  
PR 23-JUN-2001; 2001MO-US19892.  
PR 22-JUN-2001; 2001MO-US20116.  
PR 29-JUL-2001; 2001MO-US21066.  
PR 20-DEC-2000; 2000MO-US21735.  
PR 28-FEB-2001; 2001US-0796498.  
PR 09-MAR-2001; 2001US-0802706.  
PR 14-MAR-2001; 2001US-0806889.  
PR 22-MAR-2001; 2001US-0816744.  
PR 05-APR-2001; 2001US-0828366.  
PR 10-MAY-2001; 2001US-0854208.  
PR 18-MAY-2001; 2001US-0854280.  
PR 25-MAY-2001; 2001US-0860216.  
PR 25-MAY-2001; 2001US-0866028.  
PR 01-JUN-2001; 2001US-0866034.  
PR 01-JUN-2001; 2001US-0872035.  
PR 05-JUN-2001; 2001US-0874503.  
PR 14-JUN-2001; 2001US-0882836.  
PR 19-JUN-2001; 2001US-0886342.  
PR 21-JUN-2001; 2001US-0887879.  
PR 18-JUL-2001; 2001US-0908827.  
PR 05-AUG-2001; 2001US-0924419.  
PR 09-AUG-2001; 2001US-0927796.  
PR 15-AUG-2001; 2001US-0931836.  
PR 19-DEC-2001; 2001US-0028072.  
XX (GETH ) GENENTECH INC.  
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;  
XX Gerritsen ME, Goddard A, Godowski FJ, Gurney AL, Sherwood S;  
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
XX WPI; 2003-331925/31.  
XX P-PSDB; ABU67098.  
XX New secreted and transmembrane nucleic acids and polypeptides,  
XX designated as PRO, useful for treating inflammation, organ failure,  
XX atherosclerosis, cardiac injury, infertility, birth defects, premature  
XX aging, AIDS, or cancer.  
XX Claim 2; Fig 505; 659pp; English.  
XX The invention relates to an isolated nucleic acid comprising, or which is  
XX at least 80% identical to, or the full-length coding sequence of, any of  
XX the 275 nucleotide sequences, encoding the corresponding PRO polypeptide  
XX (one of 275 secreted or transmembrane proteins). The nucleic acid  
XX further comprises the full-length coding sequence of the DNA deposited  
XX under American Type Culture Collection (ATCC) accession number in a list  
XX given in the specification. Also included are vectors and host



cells for producing PRO proteins, PRO fusion proteins, anti-PRO antibodies, PRO extracellular domains and mature sequences, methods of detecting PRO proteins, methods for stimulating the release of TNF-alpha (tumour necrosis factor alpha) from human blood, (and the proliferation of differentiation of chondrocyte cells, the proliferation of, or gene expression in pericyte cells, the release or proteoglycans from cartilage, proliferation of T-lymphocyte cells, the release of a cytokine from peripheral blood mononuclear cells (PBMC), or the proliferation of endothelial cells), a method for modulating the uptake of glucose or free fatty acid (FFA) by skeletal muscle cells, a method for inhibiting the binding of A-peptide to factor VIIa, or the differentiation of adipocyte cells, a method for detecting the presence of a tumour in a mammal and an oligonucleotide probe derived from any of the nucleotide sequences cited above. The nucleic acids and polypeptides are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or diabetic complications. The nucleic acids are useful as hybridisation probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing.

CC The present sequence encodes a PRO protein of the invention.

XX Sequence 1204 BP; 306 A; 364 C; 294 G; 240 T; 0 other;

Alignment Scores:  
Pred. NO.: 5.04e-105 Length: 1204  
Score: 1258.00 Matches: 229  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x ACA04276 (1-1204)

QY 1 IleIleIleGlyPheGluCysAlaProHisSerGlnProTrpGlnAlaAlaLeuPheGlu 20  
DB 169 ATCATCAAGGGGTTCAGTGCAGGCTCATCTCCAGCCCTGCGAGCCAGCTGTTCGAG 228  
QY 21 LyeThrArgLeuLeuGlyAlaThrLeuIleAlaProArgTrpLeuThrAlaAla 40  
DB 229 AAGACCGGGTACTCTGTGGGCGCAGCTCATCGCCCGCAGATGGTCTCTACAGCAGCC 288  
QY 41 HisCysLeuLeuProArgTrpIleValHisLeuGlyGlnHisAlaLeuGlnGluGlu 60  
DB 289 CACTGGCTCAAGCCCGCTACATAGTTCACTGGGCGCAGCACAACCTCCAGAGGAGGAG 348  
QY 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAlaSer 80  
DB 349 GGCTGTGAGCAGCCCGCAGCCACTGAGTCTTCCCGCCCGCTTCAACACAGC 408  
QY 81 LeuProAsnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
DB 409 CTCCCAACAAAGCACCAGCAATGACATCATGTGTGTAAGATGGCATCGCCAGTCTCC 468  
QY 101 IleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
DB 469 ATCACTGGGCTGTGGACCCCTCACCCTCTCTCTCAGCTGTGTCACTGCTGGCACCAGC 528  
QY 121 CysLeuIleSerGlyTrpGlySerThrSerSerProGlyLeuArgProHisThrLeu 140  
DB 529 TGCTCTATTTCCGCTGTGGGCGACAGCTCAGCCCGCCAGTTAGCTGCTCCATCACCTTG 588  
QY 141 ArgCysAlaAsnIleThrIleIleGluHisGlnLysCysGluAsnAlaTyProGlyAsn 160  
DB 589 CGATGGCCCAACATCATCATTTAGCACCAGAGGTGTGAGAACGCTCATCCCGGCAAC 648  
QY 161 IleThrAspThrMetValCysAlaSerValGlnGluGlyLysAspSerCysGlnGly 180  
DB 649 ATCACAGACACCATGTGTGTGTCAGCGTGCAGGAGGGGCAAGGACTCTCTGCCAGGT 708  
QY 181 AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyIleIleSerTrpGlyGln 200

DB 709 GACTCCGGGGCCCTCTGGTCTGTATACCAAGTCTCTCAAGCATTTATCTCTGGGCCAG 768  
QY 201 AppProCysAlaIleThrArgLysProGlyValTyThrLysValCysLysTyValAsp 220  
DB 769 GATCCGTGTGGATCACCACCCGAAAGCTGTGTCTACACGAAAGTCTGCAATATGTGGAC 828  
QY 221 TrpIleGlnGluThrMetLysAsnAsn 229  
DB 829 TGGATCCAGGAGACGATGAGAACAT 855  
RESULT 14  
ABX89393  
ID ABX89393 standard; cDNA; 1204 BP.  
AC ABX89393;  
XX 13-MAY-2003 (first entry)  
XX DNA encoding novel secreted and transmembrane protein PRO1279.  
XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
XX cardiac insufficiency disorder; cancer; tumour; immune response;  
XX adrenal cortical capillary endothelial growth; c-fos induction;  
XX vascular endothelial growth factor inhibition; VEGF inhibition;  
XX endothelial cell growth inhibitor; T-lymphocytes stimulation;  
XX retinal neurons cell survival; rod photoreceptor cell survival;  
XX retinal disorder; retinitis pigmentosa; kidney disease;  
XX mammalian kidney mesangial cell proliferation; Berger disease;  
XX dermatitis; herpetic form; Crohn's disease; chondrocyte proliferation;  
XX chondrocyte redifferentiation; sports injury; arthritis; gene; ss.  
OS Hmo sapiens.  
XX US2003017563-A1.  
PN 23-JAN-2003.  
PD 07-MAY-2002; 2002US-0140808.  
PF 31-MAR-1997; 97WO-US05230.  
PR 12-JUN-1998; 98WO-US12456.  
PR 14-JUL-1998; 98WO-US14552.  
PR 28-AUG-1998; 98WO-US17888.  
PR 10-SEP-1998; 98WO-US18824.  
PR 14-SEP-1998; 98WO-US19093.  
PR 14-SEP-1998; 98WO-US19094.  
PR 14-SEP-1998; 98WO-US19177.  
PR 16-SEP-1998; 98WO-US19330.  
PR 17-SEP-1998; 98WO-US19437.  
PR 07-OCT-1998; 98WO-US21141.  
PR 29-OCT-1998; 98WO-US22591.  
PR 29-OCT-1998; 98WO-US22592.  
PR 20-NOV-1998; 98WO-US24855.  
PR 01-DEC-1998; 98WO-US25108.  
PR 05-JAN-1999; 99WO-US00106.  
PR 08-MAR-1999; 99WO-US05028.  
PR 10-MAR-1999; 99WO-US05190.  
PR 20-APR-1999; 99WO-US08615.  
PR 14-MAY-1999; 99WO-US10713.  
PR 02-JUN-1999; 99WO-US12252.  
PR 01-SEP-1999; 99WO-US20111.  
PR 08-SEP-1999; 99WO-US20594.  
PR 13-SEP-1999; 99WO-US20944.  
PR 15-SEP-1999; 99WO-US21090.  
PR 15-SEP-1999; 99WO-US21547.  
PR 05-OCT-1999; 99WO-US23089.  
PR 29-NOV-1999; 99WO-US28214.  
PR 30-NOV-1999; 99WO-US28313.  
PR 30-NOV-1999; 99WO-US28409.  
PR 01-DEC-1999; 99WO-US28301.  
PR 01-DEC-1999; 99WO-US28634.  
PR 02-DEC-1999; 99WO-US28551.

PR 02-DEC-1999; 99WO-US28564.  
PR 02-DEC-1999; 99WO-US28565.  
PR 16-DEC-1999; 99WO-US30095.  
PR 20-DEC-1999; 99WO-US30911.  
PR 20-DEC-1999; 99WO-US30999.  
PR 22-DEC-1999; 99WO-US30720.  
PR 30-DEC-1999; 99WO-US31243.  
PR 30-DEC-1999; 99WO-US31274.  
PR 05-JAN-2000; 2000WO-US00219.  
PR 06-JAN-2000; 2000WO-US00277.  
PR 06-JAN-2000; 2000WO-US00376.  
PR 11-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
PR 18-FEB-2000; 2000WO-US04342.  
PR 22-FEB-2000; 2000WO-US04414.  
PR 24-FEB-2000; 2000WO-US04914.  
PR 01-MAR-2000; 2000WO-US05004.  
PR 02-MAR-2000; 2000WO-US05601.  
PR 02-MAR-2000; 2000WO-US05746.  
PR 10-MAR-2000; 2000WO-US05841.  
PR 10-MAR-2000; 2000WO-US06319.  
PR 15-MAR-2000; 2000WO-US06884.  
PR 20-MAR-2000; 2000WO-US07377.  
PR 21-MAR-2000; 2000WO-US07532.  
PR 30-MAR-2000; 2000WO-US08439.  
PR 17-MAY-2000; 2000WO-US13705.  
PR 22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15264.  
PR 28-JUL-2000; 2000WO-US20710.  
PR 11-AUG-2000; 2000WO-US22031.  
PR 21-AUG-2000; 2000WO-US23522.  
PR 24-AUG-2000; 2000WO-US23328.  
PR 08-NOV-2000; 2000WO-US30952.  
PR 10-NOV-2000; 2000WO-US30973.  
PR 01-DEC-2000; 2000WO-US32678.  
PR 28-FEB-2001; 2000WO-US34956.  
PR 01-MAR-2001; 2001WO-US06520.  
PR 25-MAY-2001; 2001WO-US06666.  
PR 01-JUN-2001; 2001WO-US17092.  
PR 22-JUN-2001; 2001WO-US17800.  
PR 22-JUN-2001; 2001WO-US19692.  
PR 29-JUN-2001; 2001WO-US20116.  
PR 09-JUL-2001; 2001WO-US21066.  
PR 28-DEC-2000; 2000US-0747259.  
PR 28-FEB-2001; 2001US-0796498.  
PR 09-MAR-2001; 2001US-0802708.  
PR 14-MAR-2001; 2001US-0805689.  
PR 22-MAR-2001; 2001US-0816744.  
PR 05-APR-2001; 2001US-0828366.  
PR 10-MAY-2001; 2001US-0854208.  
PR 10-MAY-2001; 2001US-0854280.  
PR 18-MAY-2001; 2001US-0860216.  
PR 25-MAY-2001; 2001US-0866028.  
PR 25-MAY-2001; 2001US-0866034.  
PR 01-JUN-2001; 2001US-0872035.  
PR 05-JUN-2001; 2001US-0874503.  
PR 14-JUN-2001; 2001US-0882636.  
PR 19-JUN-2001; 2001US-0886342.  
PR 21-JUN-2001; 2001US-0887879.  
PR 18-JUL-2001; 2001US-0908627.  
PR 06-AUG-2001; 2001US-0924419.  
PR 09-AUG-2001; 2001US-0927756.  
PR 16-AUG-2001; 2001US-0931836.  
PR 19-DEC-2001; 2001US-0028072.  
XX (GETH ) GENENTECH INC.

XX Baker KP, Beresini M, Deenoyers L, Filvaroff E, Gao W,  
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S,  
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

DR MPI; 2003-148238/14.  
DR P-PSDB; ABUS9903.  
XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
XX and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
PT are therapeutically useful for enhancing immune response and in cancer  
PT treatments  
XX  
XX Claim 2: Fig 505; 659pp; English.

XX The invention describes an isolated human PRO polypeptide. The PRO  
XX polypeptides are useful in detecting PRO polypeptides in a sample, in  
XX linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
XX in modulating at least one biological activity of a cell expressing a PRO  
XX polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
XX useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
XX stimulate adrenal cortical capillary endothelial growth, and PRO536,  
XX PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,  
XX PRO1360 and PRO1387 induce e-fos in endothelial cells, and are thus  
XX useful for treating conditions or disorders where angiogenesis would be  
XX beneficial, e.g. wound healing and antagonist of this polypeptide are  
XX useful for treating cancerous tumours. PRO812 inhibits vascular  
XX endothelial growth factor (VEGF) stimulated proliferation of endothelial  
XX cells and is thus useful for inhibiting endothelial cell growth in  
XX mammals which would be beneficial in inhibiting tumour growth. PRO826,  
XX PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
XX stimulated T-lymphocytes and are therapeutically useful for enhancing  
XX immune response. PRO828, PRO826, PRO1068 or PRO132 enhance survival of  
XX retinal neurons cells (PRO132 is also enhances survival/proliferation of  
XX rod photoreceptor cells) and therefore are useful for treating retinal  
XX disorders of injuries, e.g. retinitis pigmentosum, AMD. PRO819, PRO813  
XX and PRO1066 induce proliferation of mammalian kidney mesangial cells,  
XX and therefore are useful for treating kidney disorders associated with  
XX decreased mesangial cell function such as Berger disease or other  
XX nephropathies associated with dermatitis, herpetiformis or Crohn's  
XX disease. PRO1310, PRO844, PRO1312, PRO1392 and PRO1387 induce the  
XX proliferation and/or redifferentiation of chondrocytes in culture and  
XX are thus useful for treating sports injuries, and arthritis. This  
XX sequence encodes a novel human PRO protein.

XX Sequence 1204 BP; 306 A; 364 C; 284 G; 240 T; 0 other;

Alignment Scores:  
Pred. No.: 5,04e-105 Length: 1204  
Score: 1258.00 Matches: 229  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x ABX89393 (1-1204)

Qy 1 llellelysglypheglucyslyspromisserglnprotrpqlnlaaleupheglu 20  
Db 169 ATCATCAAGGGGTTTCGAGTCAAGCCTCCTCCAGCCCTGGCAGCAGCCCTGTTTCGAG 228  
Qy 21 lvsThrArgLeuLeuCysGlyAlaThrLeulleAlaProArgTrpLeuLeuThrAlaAla 40  
Db 229 AAGAGCGGGCTACTCTGTGGCGGACGCTCATGCCGCCAGATGGCTCTGACAGCAGGC 288  
Qy 41 HisCysLeuLysProArgTrpIleValHisLeuGlyGlnHisLeuGlnLysGluGlu 60  
Db 289 CACTGCTCAAGCCCGCTACATAGTTCACTGGGGCAGCACAACCTCCAGAGGAGGAG 348  
Qy 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnSer 80  
Db 349 GCGTGTGAGCAGACCCGGACAGCCACTGAGTCTTCCCCACCCCGCTTCAACACAGC 408  
Qy 81 LeuProAnLysAspHisArgAsnAspIleMetLeuValLysMetAlaSerProValSer 100  
Db 409 CTCGCCAACAGACACCCCAATGACATCATGCTGTGAGATGGCATCGCCAGTCTCC 468  
Qy 101 lleThrTrpAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120

Db 469 ATCACTGGGCTGGGACCCCTCACCCTCTCTCAGCTGTGTACTGTGGCACCAGC 528  
Qy 121 CysLeuIleSerClyTTPGlySerThrSerProGlnLeuArgLeuProHisThrLeu 140  
Db 529 TGCTCTATTTTCGGCTGGGGCAGCAGCTCCAGCCGCCAGTTAGCCTGCTCTCACACCTTG 588  
Qy 141 ArgCysAlaSerIleThrIleGluHisGlnCysGluHisAlaThrProGlyAen 160  
Db 589 CGATGCGCCCAACATCACCATCTAGGACCCAGAGTGTGAGAACCCCTACCCCGGCAAC 648  
Qy 161 IleThrAepThrMetValCysAlaSerValGlnGluGlyIleValCysAspSerCysGlnGly 180  
Db 649 ATCAGACACCATGGTGTGTCAGCTGCAGGAGGGGCAAGACCTCTGCGCGGT 708  
Qy 181 AspSerClyClyProLeuValCysGlnSerLeuGlnClyIleIleSerTTPGlyGln 200  
Db 709 GACTTCCGGGGCCCTCTGTGTAAACAGCTCTTCAAGGCATTAATCTCTGGGGCCAG 768  
Qy 201 AspProCysAlaIleThrArgCysProGlyValThrThrCysValCysIleValAsp 220  
Db 769 GATCGGTGCGATACCCGAAAGCTGTGTCTACAGCAAGCTGTGCAATATGTGGAC 828  
Qy 221 TriPleGlnGluThrMetIleValAsnAen 229  
Db 829 TGGATCCAGGACGATGAAGAACAT 855

RESULT 15  
ABA83372  
ID ABA83372 standard; cDNA; 1292 BP.  
XX  
AC ABA83372;  
XX  
DT 07-FEB-2002 (first entry)  
XX  
DE Human secreted protein gene 179 SEQ ID NO:189.  
XX  
KW Human; secreted protein; immunomodulatory; antisclerotic; anti-HIV;  
KW dermatological; immunosuppressive; antiinflammatory; immunostimulant;  
KW cytosolic; cardiac; vascular; anti-angiogenic; ophthalmological;  
KW neuroprotective; nootropic; anticonvulsant; antialzheimer's; vulnary;  
KW antiparkinsonian; antimicrobial; gene therapy; vaccine; immune disorder;  
KW multiple sclerosis; systemic lupus erythematosus; HIV infection; cancer;  
KW human immunodeficiency virus; hyperproliferative disorder; wound healing;  
KW Gaucher's disease; cardiovascular disease; Scimitar syndrome; chemotaxis;  
KW corneal graft neovascularization; diabetic retinopathy; angiotensin disorder;  
KW neurological disorder; Huntington's chorea; Alzheimer's disease;  
KW Parkinson's disease; infectious disease; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200162891-A2.  
XX  
XX 30-AUG-2001.  
XX  
XX 21-FEB-2001; 2001WO-US05614.  
XX  
XX 24-FEB-2000; 2000US-184836P.  
XX  
XX 29-MAR-2000; 2000US-193170P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Ni J, Ebner R, Lafleur DW, Moore PA, Olsen HS, Rosen CA;  
XX Ruben SM, Soppet DR, Young PE, Shi Y, Florence KA, Wei Y;  
XX Florence C, Hu J, Li Y, Kyaw H, Fischer CL, Ferrie AM, Fan P;  
XX Feng P, Endress GA, Dillon FO, Carter KC, Brewer LA, Yu G;  
XX Zeng Z, Greene JM;  
XX  
XX WPI; 2001-625724/72.  
XX  
XX P-PSDB; ABB50479.  
XX  
XX Nucleic acids encoding 207 human secreted polypeptides, useful for

PT preventing, diagnosing and/or treating, e.g. cancers, Parkinson's  
PT disease and diabetic retinopathy -  
XX  
XX Claim 1; Page 1032; 153pp; English.  
XX  
XX ABB50301 to ABB51287 and ABA83194 to ABA83441 represent human secreted  
XX proteins (I) and polynucleotide (II) sequences. (I) and (II) have various  
XX activities based on the tissues and cells the genes are expressed in.  
XX Example of these activities include: immunomodulatory; antisclerotic;  
XX dermatological; immunosuppressive; antiinflammatory; immunostimulant;  
XX anti-HIV; cytostatic; cardiac; anti-angiogenic; ophthalmological;  
XX neuroprotective; nootropic; anticonvulsant; antialzheimer's; vascular;  
XX antiparkinsonian; antimicrobial; and vulnary (I) and (II) can be used  
XX in gene therapy and vaccine production. (I) and (II) can be used in the  
XX prevention, diagnosis and treatment of immune disorders (e.g. multiple  
XX sclerosis, systemic lupus erythematosus and human immunodeficiency virus  
XX [HIV] infections), hyperproliferative disorders (e.g. cancers and  
XX Gaucher's disease), cardiovascular diseases (e.g. Scimitar syndrome,  
XX Chaga's cardiomyopathy and coronary arteriosclerosis), angiotensin  
XX disorders (e.g. corneal graft neovascularisation and diabetic  
XX retinopathy), neurological disorders (e.g. Huntington's chorea,  
XX Alzheimer's disease and Parkinson's disease), infectious diseases and/or  
XX for promoting wound healing, regeneration and/or chemotaxis. ABA83185 to  
XX ABA83193 and ABB50300 represent sequences used in the exemplification of  
XX the present invention.  
XX  
XX Sequence 1292 BP; 319 A; 387 C; 329 G; 253 T; 4 other;  
XX  
XX Alignment Scores:  
XX Pred. No.: 5.52e-105 Length: 1292  
XX Score: 1258.00 Matches: 229  
XX Percent Similarity: 100.00% Conservative: 0  
XX Best Local Similarity: 100.00% Mismatches: 0  
XX Query Match: 100.00% Indels: 0  
XX DB: 22 Gaps: 0

US-09-856-320A-2\_COPY\_54\_282 (1-229) x ABA83372 (1-1292)

Qy 1 IleIleLysGlyPheGluCysLysProHisSerGlnProTGGlnAlaAlaLeuPheGlu 20  
Db 270 ATCTCAAGGGGTTTGGAGTGGAGCTCACTCCAGCCCTGGCAGGAGCCCTGTTCGAG 329  
Qy 21 LysThrArgLeuLeuCysGlyAlaThrLeuIleAlaProArgTTPLeuLeuThrAlaAla 40  
Db 330 AAGACGCGGGCTACTCTGTGGGGGAGCGCTCATCGCCGCCAGATGGCTCTCTGACAGCAGCC 389  
Qy 41 HisCysLeuLysProArgTyrIleValHisLeuGlyGlnHisAsnLeuGlnLysGluGlu 60  
Db 390 CACTCGCTCAAGCCCGCTACATAGTTTCACTGGGGCAGCACACCTCCAGAGGAGGAG 449  
Qy 61 GlyCysGluGlnThrArgThrAlaThrGluSerPheProHisProGlyPheAsnSer 80  
Db 450 GGCTGTGAGCAGACCCCGCAGCAGCTGAGTCTTCCCTCCACCCGCTTCAACACAGC 509  
Qy 81 LeuProAsnLysAepHisArgAenAspIleMetLeuValLysMetAlaSerProValSer 100  
Db 510 CTCCCAACAAAGACACCCGCAATGACATCATGCTGGTGAAGATGGCATGCCAGTCTCC 569  
Qy 101 IleThrTTPAlaValArgProLeuThrLeuSerSerArgCysValThrAlaGlyThrSer 120  
Db 570 ATCACTGGGCTGTGGACCCCTCACCCTCTCTCTCAGCTGTGTCTGTGGCAGCAGC 629  
Qy 121 CysLeuIleSerGlyTTPGlySerThrSerSerProGlnLeuArgLeuProHisThrLeu 140  
Db 630 TGCTCTATTTTCGGCTGGGGCAGCAGCTCCAGCCGCCAGTTACGCTGCTCTCACACCTTG 689  
Qy 141 ArgCysAlaSerIleThrIleIleGluHisGlnCysGluHisAlaThrProGlyAen 160  
Db 690 CGATGCGCCCAACATCACCATCTAGGACCCAGAGTGTGAGAACCCCTACCCCGGCAAC 749  
Qy 161 IleThrAepThrMetValCysAlaSerValGlnGluGlyIleValCysAspSerCysGlnGly 180  
Db 750 ATCAGACACCATGGTGTGTGTGTCAGCGTGCAGAGGGGCAAGGAGTCTCTGCCAGGCT 809

Qy	181	AspSerGlyGlyProLeuValCysAsnGlnSerLeuGlnGlyValIleIleSerTrpGlyGln	200
Db	810	GACTCCGGGGGCTCTGCTGTAAACCACTCTCTCAAGGCATTATCTCTGGGGCCAG	869
Qy	201	AspProCysAlaIleThrArgProGlyValThrLysValCysLysTyrValasp	220
Db	870	GATCCGTGTGCCATCACCCGAAGCCTGGTGTCTACACCAAGTCTGCATAATATGTGGAC	929
Qy	221	TrpIleGlnGluThrMetLysAsnAsn	229
Db	930	TGGATCCAGGAGACGATGAGACCAAT	956

Search completed: October 23, 2003, 15:58:15  
 Job time : 260.855 secs

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Search  for

GoClear

# ScanProsite

## Search a sequence against PROSITE

*Nope pro-site*  
*Tang*  
*6075 136*  
*SID2*

Sequence:

MQRLRWLRDW KSSGRGLTAA KEPGARSSPL QAMRILQLIL LALATGLVGG ETRIIGFEC  
KPHSQPWQAA LFEKTRLLCG ATLIAPRWLL TAAHCLKPRY IVHLGQHNLQ KEEGCEQTRT  
ATESFPHPGF NNSLPNKDHR NDIMLVKMAS PVSITWAVRP LTLSSRCVTA GTSCLISGWG  
STSSPQLRLP HTLRCANITI IEHQKCNAY PGNITDTMVC ASVQEGGKDS CQDSSGGPLV  
CNQSLQGIIS WGQDPCAIR KPGVYTKVCK YVDWIQETMK NN

PROSITE Release 18.10, of 12-Oct-2003

>PDOC00001 PS00001 ASN\_GLYCOSYLATION N-glycosylation site [pattern] [Warning: pattern with a high probability of occurrence].

- 131 - 134 NNSL
- 197 - 200 NITI
- 213 - 216 NITD
- 242 - 245 NQSL

>PDOC00005 PS00005 PKC\_PHOSPHO\_SITE Protein kinase C phosphorylation site [pattern] [Warning: pattern with a high probability of occurrence].

- 13 - 15 SgR
- 164 - 166 SsR
- 192 - 194 TlR
- 259 - 261 TrK
- 278 - 280 TmK

>PDOC00006 PS00006 CK2\_PHOSPHO\_SITE Casein kinase II phosphorylation site [pattern] [Warning: pattern with a high probability of occurrence].

- 120 - 123 TatE
- 199 - 202 TiiE
- 222 - 225 SvqE

>PDOC00008 PS00008 MYRISTYL N-myristoylation site [pattern] [Warning: pattern with a high probability of occurrence].

- 16 - 21 GLtaAK
- 46 - 51 GLvgGE
- 114 - 119 GCeqTR
- 226 - 231 GGkdSC
- 252 - 257 GQdpCA

>PDOC00124 PS50240 TRYPSIN\_DOM Serine proteases, trypsin domain [profile].

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47 - 280 LVGGEtriikgfeCKPHSQPWQAALFEKT-RLLCGATLIAPRWLLTAAHCLKPR-----Y  
IVHLGQHNLQKEEGCEQTRTATESFPHPGFNslpNKDHRNDIMLVKMASPV SITWAVRP  
LTL--SSRCVTAGTSC LISGWGSTSSPqLRLPHTLR CANITII EHQKC-ENAYPGNITDT  
MVCASVQEGGKDSCQGDSSGGLVC----NQSLQGII SWGqDPCAITRKPGVYTKVCKYVD  
WIQETMK

>PDOC00124 PS00134 TRYPSIN\_HIS Serine proteases, trypsin family, histidine active site [pattern].

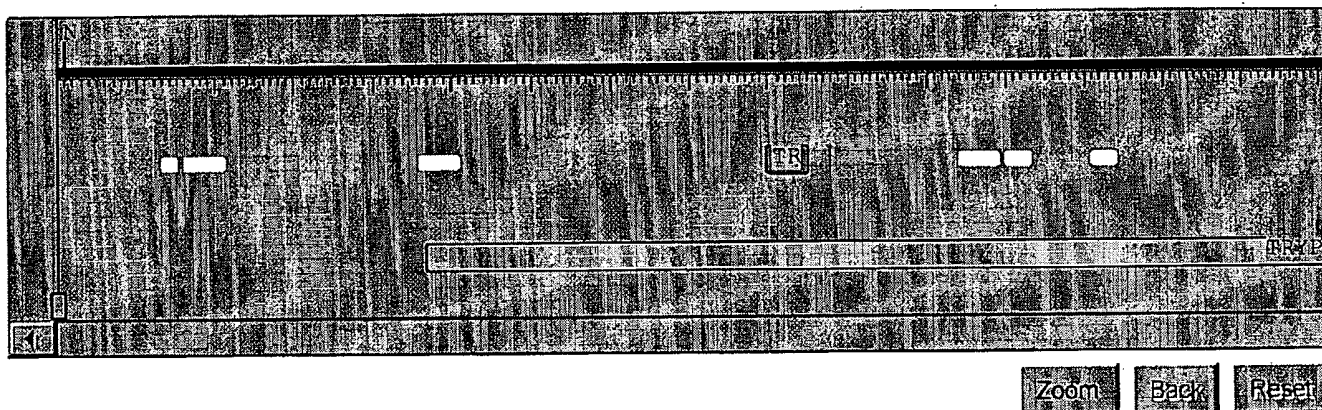
90 - 95 LTAABC

>PDOC00124 PS00135 TRYPSIN\_SER Serine proteases, trypsin family, serine active site [pattern].

229 - 240 DScqGDSGGPLV

### Graphical summary of hits (*java applet*)

Click on items to see a description. Drag the two red cursors to select a zoom region.



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